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1.4 velocity 1.7

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1.5 xalan 2.7.0

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1.6 junit 4.10

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== Contributors ==

* Tatu Saloranta

* Providing benchmark suite

* Alec Wysoker

* Performance and memory usage improvement

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compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs

lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
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lib/csharp/src/Transport/TTransportException.cs
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lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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L. Peter Deutsch
ghost@aladdin.com

*/

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1.18 taglibs-standard-spec 1.2.5

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* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/IterableProviderImpl.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/IndexedListData.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/ConstantActiveDescriptor.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/DelegatingClassLoader.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/ImmediateResults.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/ThreeThirtyResolver.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/Utilities.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/ServiceHandleComparator.java
 *
 /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/PerLookupContext.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-


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zip/org/jvnet/hk2/external/generator/ServiceLocatorGeneratorImpl.java
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* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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zip/org/jvnet/hk2/internal/DescriptorComparator.java
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zip/org/jvnet/hk2/internal/ServiceLocatorImpl.java
* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
zip/org/jvnet/hk2/internal/InstanceLifecycleEventImpl.java

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zip/org/jvnet/hk2/internal/ServiceLocatorRuntimeImpl.java
* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
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* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
zip/org/jvnet/hk2/internal/PerLocatorUtilities.java
* /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
zip/org/jvnet/hk2/external/runtime/Hk2LocatorUtilities.java

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 zip/org/jvnet/hk2/internal/ConstructorActionImpl.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/Closeable.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/ConstructorAction.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/MethodInterceptorInvocationHandler.java
 * /opt/cola/permits/144645407_1695307379.355461/0/hk2-locator-2-5-0-b32-sources-
 zip/org/jvnet/hk2/internal/TopicImpl.java

1.27 jersey-media-jaxb 2.25.1

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zip/org/glassfish/jersey/jaxb/internal/JaxbMessagingBinder.java

* /opt/cola/permits/144645623_1695307385.9351852/0/jersey-media-jaxb-2-25-1-sources-
zip/org/glassfish/jersey/jaxb/internal/JaxbParamConverterBinder.java

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* /opt/cola/permits/144645623_1695307385.9351852/0/jersey-media-jaxb-2-25-1-sources-
zip/org/glassfish/jersey/jaxb/internal/AbstractJaxbProvider.java
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zip/org/glassfish/jersey/jaxb/internal/localization.properties
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zip/org/glassfish/jersey/jaxb/internal/AbstractXmlFactory.java
* /opt/cola/permits/144645623_1695307385.9351852/0/jersey-media-jaxb-2-25-1-sources-
```

1.28 jersey-client 2.25.1

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zip/org/glassfish/jersey/client/filter/package-info.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/spi/AsyncConnectorCallback.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/ChunkedReader.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/ChunkParser.java

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* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/Initializable.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/authentication/package-info.java

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zip/org/glassfish/jersey/client/ClientConfig.java
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zip/org/glassfish/jersey/client/ClientResponse.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/ClientBinder.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/InboundJaxrsResponse.java
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zip/org/glassfish/jersey/client/JerseyWebTarget.java
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zip/org/glassfish/jersey/client/DefaultClientAsyncExecutorProvider.java
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zip/org/glassfish/jersey/client/filter/EncodingFilter.java
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zip/org/glassfish/jersey/client/ClientFilteringStages.java
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zip/org/glassfish/jersey/client/filter/EncodingFeature.java
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zip/org/glassfish/jersey/client/spi/Connector.java
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zip/org/glassfish/jersey/client/AbortException.java
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zip/org/glassfish/jersey/client/ServiceLocatorClientProvider.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/ClientLifecycleListener.java

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zip/org/glassfish/jersey/client/authentication/ResponseAuthenticationException.java

* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-

zip/org/glassfish/jersey/client/ClientAsyncExecutorLiteral.java

* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-

zip/org/glassfish/jersey/client/authentication/RequestAuthenticationException.java

* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-

zip/org/glassfish/jersey/client/ClientAsyncExecutor.java

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zip/org/glassfish/jersey/client/spi/package-info.java

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zip/org/glassfish/jersey/client/authentication/BasicAuthenticator.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/URLConnectionProvider.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/RequestEntityProcessing.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/authentication/DigestAuthenticator.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/authentication/HttpAuthenticationFilter.java
* /opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/authentication/HttpAuthenticationFeature.java
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*/opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/ClientRequest.java
*/opt/cola/permits/144645840_1695307389.5468955/0/jersey-client-2-25-1-sources-
zip/org/glassfish/jersey/client/ClientRuntime.java
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zip/org/glassfish/jersey/client/spi/DefaultSslContextProvider.java
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1.29 hk2-api 2.5.0-b32

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* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/binding/ServiceBindingBuilder.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/api/Rank.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/binding/NamedBindingBuilder.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/api/MultiException.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/binding/AbstractBindingBuilder.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/AbstractActiveDescriptor.java

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/opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/api/ServiceLocator.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/DescriptorImpl.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/internal/ConstantActiveDescriptor.java

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* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/api/DynamicConfiguration.java
* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/internal/ActiveDescriptorBuilderImpl.java
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zip/org/glassfish/hk2/utilities/binding/AbstractBinder.java
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zip/org/jvnet/hk2/annotations/package-info.java
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zip/org/jvnet/hk2/annotations/Service.java
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* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
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zip/org/glassfish/hk2/utilities/DuplicatePostProcessorMode.java

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zip/org/glassfish/hk2/api/messaging/TopicDistributionService.java
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zip/org/glassfish/hk2/api/HK2RuntimeException.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
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/opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/binding/BindingBuilder.java

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zip/org/glassfish/hk2/utilities/HK2LoaderImpl.java
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* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
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zip/org/glassfish/hk2/api/PreDestroy.java

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zip/org/glassfish/hk2/utilities/ContextualInput.java

* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
zip/org/glassfish/hk2/api/messaging/SubscribeTo.java

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- zip/org/glassfish/hk2/api/ServiceLocatorListener.java
- * /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
- zip/org/glassfish/hk2/api/Populator.java
- * /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
- zip/org/glassfish/hk2/api/ClassAnalyzer.java
- * /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
- zip/org/glassfish/hk2/internal/ImmediateHelper.java
- * /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
- zip/org/glassfish/hk2/api/PopulatorPostProcessor.java
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* /opt/cola/permits/144646683_1695307393.292425/0/hk2-api-2-5-0-b32-sources-
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zip/org/glassfish/hk2/api/SingleCache.java
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zip/org/glassfish/jersey/internal/inject/ContextInjectionResolver.java
*
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zip/org/glassfish/jersey/model/ContractProvider.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-

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zip/org/glassfish/jersey/internal/util/PropertiesHelper.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/uri/internal/UriParser.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/process/internal/ExecutorProviders.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/OsgiRegistry.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/BasicTypesMessageProvider.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/MessagingBinders.java
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zip/org/glassfish/jersey/model/internal/ComponentBag.java

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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/inject/ServiceLocatorSupplier.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/ServiceLocatorProvider.java

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zip/org/glassfish/jersey/process/internal/RequestScoped.java
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/JerseyPriorities.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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zip/org/glassfish/jersey/message/internal/MsgTraceEvent.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/JerseyErrorService.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/JerseyLink.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/util/collection/LazyUnsafeValue.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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*

/opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/util/collection/NonBlockingInputStream.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/Severity.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/TracingAwarePropertiesDelegate.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/model/package-info.java

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*
* All proprietary Jersey extension APIs are annotated with the {@code @Contract} annotation.
* <p>
* Similarly, any custom (i.e. not JAX-RS or Jersey) extension provider contract must be annotated with this
* annotation otherwise concrete service classes implementing the provider contract would not be recognized
* and treated as extension service provider by Jersey runtime.
* </p>
*
* @author Miroslav Fuksa
* @author Marek Potociar (marek.potociar at oracle.com)
*/

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zip/org/glassfish/jersey/message/internal/GrammarUtil.java

* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/util/collection/DataStructures.java

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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/MessageProperties.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/process/internal/Stage.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/spi/ContextResolvers.java
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zip/org/glassfish/jersey/model/internal/ImmutableCommonConfig.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/HeaderValueException.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/util/collection/UnsafeValue.java

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 * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-

zip/org/glassfish/jersey/internal/util/collection/TransferQueue.java
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```
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zip/org/glassfish/jersey/internal/build.properties
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/uri/internal/package-info.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/VariantListBuilder.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/ByteArrayProvider.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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zip/org/glassfish/jersey/message/internal/package-info.java

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zip/org/glassfish/jersey/internal/util/collection/ThreadLocalRandom.java

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 * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
 zip/org/glassfish/jersey/message/package-info.java
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 zip/org/glassfish/jersey/internal/util/collection/ClassTypePair.java
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/opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/FormProvider.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/HttpHeaderReader.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/InputStreamProvider.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/process/internal/RequestScope.java
*
/opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/MessageUtils.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/LinkProvider.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/uri/UriTemplate.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/ServiceFinder.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/util/collection/KeyComparator.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/CommittingOutputStream.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/StringBuilderUtils.java
*
/opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/AbstractMessageReaderWriterProvider.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/QualitySourceMediaType.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/util/ReflectionHelper.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/uri/PathPattern.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/Qualified.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/AcceptableToken.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/uri/UriComponent.java

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 * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
 zip/org/glassfish/jersey/internal/i10n/LocalizableMessage.java
 * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
 zip/org/glassfish/jersey/internal/util/collection/Ref.java
 * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-

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zip/org/glassfish/jersey/internal/util/collection/KeyComparatorLinkedHashMap.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/spi/ExceptionMappers.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/ParameterizedHeader.java
* /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/internal/CookiesParser.java
*
/opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
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- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/ReaderModel.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/spi/ScheduledExecutorServiceProvider.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/spi/AbstractThreadPoolProvider.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/spi/ThreadPoolExecutorProvider.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/process/JerseyProcessingUncaughtExceptionHandler.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/model/internal/ManagedObjectsFinalizer.java
- *
- /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/spi/ScheduledThreadPoolExecutorProvider.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/spi/ExecutorServiceProvider.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/sonar/SonarJerseyCommon.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/inject/ForeignRequestScopeBridge.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/message/AbstractEntityProviderModel.java
- * /opt/cola/permits/144647442_1695307395.2449157/0/jersey-common-2-25-1-sources-
zip/org/glassfish/jersey/internal/util/collection/NullableMultivaluedHashMap.java

1.31 jersey-server 2.25.1

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* `/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/internal/inject/AsyncResponseValueFactoryProvider.java`
 * `/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/model/internal/ResourceMethodInvocationHandlerFactory.java`
 * `/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/spi/RequestScopedInitializer.java`
 * `/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/model/Consuming.java`
 * `/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/internal/scanning/ResourceFinderException.java`
 * `/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/model/Inflecting.java`

```
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/spi/internal/ResourceMethodInvocationHandlerProvider.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/Suspendable.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/filter/package-info.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/spi/AbstractContainerLifecycleListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/UriSchemeResourceFinderFactory.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ManagedAsync.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/ResourceProcessor.java
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jar/org/glassfish/jersey/server/wadl/config/WadlGeneratorConfig.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/spi/ContainerProvider.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ContainerFactory.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/AnnotatedMethod.java

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jar/org/glassfish/jersey/server/internal/inject/ParameterInjectionBinder.java
*/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/MappableException.java
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jar/org/glassfish/jersey/server/internal/package-info.java

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 */
 /**
 * Obtain a { @link InputStream } of the jar file.
 * <p>
 * For most platforms the format for the zip or jar follows the form of
 * the jar protocol.</p>
 *
 * <code>jar:file:///tmp/fishfingers.zip!/example.txt</code>
 * <code>zip:http://www.example.com/fishfingers.zip!/example.txt</code>
 *
 * <p>
 * On versions of the WebLogic application server a proprietary format is
 * supported of the following form, which assumes a zip file located on
 * the local file system:
 * <p>
 *
 * <code>zip:/tmp/fishfingers.zip!/example.txt</code>
 * <code>zip:d:/tempfishfingers.zip!/example.txt</code>
 *

```

* <p/>
* This method will first attempt to create a {@link InputStream} as follows:
* <pre>
* new URL(jarUrlString).openStream();
* </pre>
* if that fails with a {@link java.net.MalformedURLException} then the method will
* attempt to create a {@link InputStream} instance as follows:
* <pre>
* return new new FileInputStream(
*     UriComponent.decode(jarUrlString, UriComponent.Type.PATH));
* </pre>
*
* @param jarUrlString the raw scheme specific part of a URI minus the jar
*     entry
* @return a {@link InputStream}.
* @throws IOException if there is an error opening the stream.
*/

```

Found in path(s):

```

* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/JarZipSchemeResourceFinderFactory.java
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/Uri.java

* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/DefaultRespondingContext.java

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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/model/internal/AbstractJavaResourceMethodDispatcher.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/filter/CsrfProtectionFilter.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/model/internal/ResourceModelBinder.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/model/internal/VoidVoidDispatcherProvider.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/spi/internal/ResourceMethodDispatcher.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/routing/Router.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/RuntimeDelegateImpl.java
 *
 /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/routing/UriRoutingContext.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/model/ResourceMethodInvoker.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/ApplicationHandler.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/model/Invocable.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/model/internal/JavaResourceMethodDispatcherProvider.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/routing/MatchResultInitializerRouter.java
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/inject/SingleStringValueExtractor.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/ApplicationDescription.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
```



```
jar/org/glassfish/jersey/server/model/ResourceModelVisitor.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/inject/AbstractValueFactoryProvider.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/inject/StringCollectionExtractor.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ExtendedUriInfo.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/inject/AbstractContainerRequestValueFactory.java
*
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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jar/org/glassfish/jersey/server/internal/monitoring/MonitoringAutodiscoverable.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/WadlUtils.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ApplicationMXBeanImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ExceptionMapperMXBeanImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ExceptionMapperMXBean.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/WadlAutoDiscoverable.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ResourceStatistics.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/MonitoringStatistics.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/MonitoringFeature.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ResourcesMBeanGroup.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ApplicationMXBean.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/MonitoringStatisticsListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/ResponseStatisticsImpl.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/routing/PushMatchedMethodRouter.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/routing/PushMatchedRuntimeResourceRouter.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ResourceMXBean.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/filter/internal/ServerFiltersAutoDiscoverable.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ExecutionStatisticsDynamicBean.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-

jar/org/glassfish/jersey/server/internal/monitoring/CompositeRequestEventListener.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/RequestEvent.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/JerseyRequestTimeoutHandler.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/MonitoringStatisticsProcessor.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/RequestEventBuilder.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/SecurityContextInjectee.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ApplicationEventListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/MonitoringEventListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/RuntimeResourceModel.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/MonitoringContainerListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ResourceMxBeanImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/internal/ModelHelper.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/ProcessingProviders.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/MappableExceptionWrapperInterceptor.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/ResourceMethodStatisticsImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/routing/PushMatchedTemplateRouter.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ResponseStatistics.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/TracingUtils.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/wadl/WadlFeature.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-

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jar/org/glassfish/jersey/server/model/ModelProcessor.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/TimeWindowStatisticsImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/BackgroundScheduler.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/ApplicationEventImpl.java
*
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/RuntimeResourceModelValidator.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/RequestEventImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/CompositeApplicationEventListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/ServerTraceEvent.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/ExtendedResource.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/DestroyListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ResourceMethodMXBean.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ResponseMXBean.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/TimeWindowStatistics.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/ExecutionStatisticsImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/EmptyRequestEventBuilder.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/ApplicationInfoImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ExecutionStatistics.java

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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ResourceMethodStatistics.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/monitoring/ExceptionMapperStatistics.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/MonitoringStatisticsImpl.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/MBeanExposer.java
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jar/org/glassfish/jersey/server/internal/monitoring/ApplicationInfoListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/RequestProcessingContext.java
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jar/org/glassfish/jersey/server/internal/process/Endpoint.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ContainerMessageBodyWorkersInitializer.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/RespondingContext.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ContainerResponse.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ChunkedResponseWriter.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/AsyncContext.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/ReferencesInitializer.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ServerConfig.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ResourceBag.java

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jar/org/glassfish/jersey/server/ContainerException.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/ModelValidationException.java
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/inject/ParamConverterFactory.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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 *
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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jar/org/glassfish/jersey/server/internal/routing/RoutingContext.java
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jar/org/glassfish/jersey/server/Broadcaster.java
*
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jar/org/glassfish/jersey/server/BroadcasterListener.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ContainerFilteringStage.java
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/jersey/repackaged/org/objectweb/asm/Label.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/jersey/repackaged/org/objectweb/asm/Type.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/jersey/repackaged/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/jersey/repackaged/org/objectweb/asm/Attribute.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/jersey/repackaged/org/objectweb/asm/Frame.java
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 jar/org/glassfish/jersey/server/spi/ComponentProvider.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/inject/DelegatedInjectionValueFactoryProvider.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/inject/WebTargetValueFactoryProvider.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/scanning/AnnotationAcceptingListener.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/filter/RolesAllowedDynamicFeature.java

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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/Parameterized.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/ResourceModelComponent.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/Routed.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/model/package-info.java


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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/package-info.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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jar/org/glassfish/jersey/server/model/Producing.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/package-info.java
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jar/org/glassfish/jersey/server/wadl/config/WadlGeneratorDescription.java
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jar/org/glassfish/jersey/server/internal/inject/MultivaluedParameterExtractorProvider.java
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jar/org/glassfish/jersey/server/model/HandlerConstructor.java
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/wadl/package-info.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/wadl/processor/package-info.java
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 jar/org/glassfish/jersey/server/internal/monitoring/TimeReservoir.java
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 jar/org/glassfish/jersey/server/internal/monitoring/AbstractSlidingWindowTimeReservoir.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
 jar/org/glassfish/jersey/server/internal/monitoring/UniformTimeReservoir.java
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/AggregatingTrimmer.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/UniformTimeSimpleSnapshot.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/BackgroundSchedulerLiteral.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/SlidingWindowTimeReservoir.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/ReservoirConstants.java
*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ManagedAsyncExecutorLiteral.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/SlidingWindowTrimmer.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/AbstractTimeSnapshot.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/AggregatedSlidingWindowTimeReservoir.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/spi/internal/ParamValueFactoryWithSource.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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*
/opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/routing/LocatorRouting.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/AbstractResourceFinderAdapter.java

* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/internal/sonar/SonarJerseyServer.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/internal/routing/Routing.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/internal/routing/RuntimeLocatorModelBuilder.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/spi/ValidationInterceptorContext.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-jar/org/glassfish/jersey/server/spi/ValidationInterceptor.java
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jar/org/glassfish/jersey/server/internal/process/ServerProcessingBinder.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/spi/ExternalRequestScope.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/internal/process/DefaultCloseableService.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/spi/ResponseErrorMapper.java

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 jar/org/glassfish/jersey/server/internal/inject/MatrixParamValueFactoryProvider.java
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 jar/org/glassfish/jersey/server/wadl/config/WadlGeneratorConfigLoader.java
 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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 * /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/model/NamedValueType.java
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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*
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
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* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/WadlGeneratorResourceDocSupport.java
* /opt/cola/permits/144650284_1695303135.954784/0/jersey-server-2-25-1-sources-
jar/org/glassfish/jersey/server/ParamException.java

```

1.32 jersey-container-servlet-core 2.25.1

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- * /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/ServletPropertiesDelegate.java
- * /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/internal/ResponseWriter.java
- * /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/WebAppResourcesScanner.java
- * /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/ServletProperties.java

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* /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/internal/ThreadLocalInvoker.java

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* /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-
jar/org/glassfish/jersey/servlet/internal/spi/ServletContainerProvider.java

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* /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/WebFilterConfig.java

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* /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/internal/spi/package-info.java

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* /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-jar/org/glassfish/jersey/servlet/internal/spi/ExtendedServletContainerProvider.java

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 jar/org/glassfish/jersey/servlet/spi/AsyncContextDelegateProvider.java
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 * /opt/cola/permits/144651994_1695306019.6960368/0/jersey-container-servlet-core-2-25-1-sources-
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zip/org/glassfish/hk2/utilities/general/Hk2ThreadLocal.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
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 * /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
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zip/org/glassfish/hk2/utilities/general/ThreadSpecificObject.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/CacheUtilities.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/general/WeakHashLRU.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/general/internal/DoubleNode.java
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zip/org/glassfish/hk2/utilities/cache/Computable.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/internal/LRUCacheCheapRead.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/CacheKeyFilter.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/Cache.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/HybridCacheEntry.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/LRUHybridCache.java

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* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/reflection/ClassReflectionHelper.java

* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
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zip/org/glassfish/hk2/utilities/reflection/ReflectionHelper.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/reflection/TypeChecker.java

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* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/LRUCache.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/reflection/Logger.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/reflection/Constants.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/cache/CacheEntry.java
* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/reflection/ParameterizedTypeImpl.java
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- zip/org/glassfish/hk2/utilities/general/IndentingXMLStreamWriter.java
- * /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
- zip/org/glassfish/hk2/utilities/general/DelegatingXMLStreamWriter.java
- * /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
- zip/org/glassfish/hk2/utilities/general/internal/MessageInterpolatorImpl.java
- * /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
- zip/org/glassfish/hk2/utilities/general/ValidatorUtilities.java

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* /opt/cola/permits/144652198_1695303146.9236922/0/hk2-utils-2-5-0-b32-sources-
zip/org/glassfish/hk2/utilities/reflection/MethodWrapper.java

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jar/org/jvnet/tiger_types/TypeVisitor.java
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jar/org/jvnet/tiger_types/ParameterizedTypeImpl.java
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```

Found in path(s):

```

* /opt/cola/permits/146726199_1695306667.849129/0/tiger-types-1-4-sources-
jar/org/jvnet/tiger_types/GenericArrayTypeImpl.java

```

1.37 jsch 0.1.54

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1.38 log4j-slf4j-impl 2.8.2

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1.39 jul-to-slf4j 1.7.25

1.40 avro 1.7.7

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1.41 commons-math 3.6.1

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).

The textbook (containing a proof that the shuffle is uniformly random) is

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1.43 slf4j 1.7.25

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1.53 commons-crypto 1.0.0

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* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/cipher/package-info.java

*

/opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/Utils/Utils.java

* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/OsInfo.java

* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/random/OsCryptoRandom.java

* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/cipher/OpenSsl.java

* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/stream/CtrCryptoOutputStream.java

* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/package-info.java

* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/random/OpenSslCryptoRandomNative.java

* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-jar/org/apache/commons/crypto/stream/CtrCryptoInputStream.java

*

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/opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/output/ChannelOutput.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/package-info.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/cipher/OpenSslCipher.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/input/StreamInput.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/Crypto.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/CryptoOutputStream.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/jna/package-info.java
*
/opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/input/package-info.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/NativeCodeLoader.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/OpenSslInfoNative.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/output/package-info.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/input/ChannelInput.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/cipher/JceCipher.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/cipher/CryptoCipher.java
*
/opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/random/CryptoRandomFactory.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/random/OpenSslCryptoRandom.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/jna/OpenSslNativeJna.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/random/JavaCryptoRandom.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/cipher/CryptoCipherFactory.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/Utils/ReflectionUtils.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/output/Output.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/jna/OpenSslJnaCipher.java
*

```

```

/opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/Utils/Utils.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/CryptoInputStream.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/jna/OpenSslJnaCryptoRandom.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/cipher/OpenSslNative.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/input/Input.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/random/CryptoRandom.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/output/StreamOutput.java
*
/opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/Utils/package-info.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/random/package-info.java
* /opt/cola/permits/179589414_1695330730.3969734/0/commons-crypto-1-0-0-sources-
jar/org/apache/commons/crypto/stream/PositionedCryptoInputStream.java

```

1.54 jersey-common 2.27

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* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/ChunkedInputReader.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/filter/EncodingFilter.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/ClientFilteringStages.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/filter/EncodingFeature.java
*

/opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/filter/package-info.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/AbortException.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/ResponseCallback.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/ChunkedInput.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/JerseyWebTarget.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/RequestProcessingInitializationStage.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/JerseyClientBuilder.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/ClientRuntime.java

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jar/org/glassfish/jersey/client/Initializable.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
jar/org/glassfish/jersey/client/authentication/package-info.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
jar/org/glassfish/jersey/client/InjectionManagerClientProvider.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
jar/org/glassfish/jersey/client/spi/CachingConnectorProvider.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
jar/org/glassfish/jersey/client/ClientLifecycleListener.java

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- jar/org/glassfish/jersey/client/DefaultClientBackgroundSchedulerProvider.java
- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
- jar/org/glassfish/jersey/client/ClientExecutorProvidersConfigurator.java
- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
- jar/org/glassfish/jersey/client/AbstractRxInvoker.java
- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
- jar/org/glassfish/jersey/client/JerseyCompletionStageRxInvoker.java
- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
- jar/org/glassfish/jersey/client/ClientBackgroundScheduler.java
- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
- jar/org/glassfish/jersey/client/ClientBackgroundSchedulerLiteral.java
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 * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
 jar/org/glassfish/jersey/client/authentication/BasicAuthenticator.java
 * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
 jar/org/glassfish/jersey/client/spi/ConnectorProvider.java
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jar/org/glassfish/jersey/client/authentication/DigestAuthenticator.java
* /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-
jar/org/glassfish/jersey/client/authentication/HttpAuthenticationFilter.java
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jar/org/glassfish/jersey/client/RequestEntityProcessing.java
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jar/org/glassfish/jersey/client/authentication/HttpAuthenticationFeature.java
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- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/JerseyInvocation.java
- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/filter/CsrfProtectionFilter.java
- * /opt/cola/permits/182870883_1695334114.9825838/0/jersey-client-2-27-sources-jar/org/glassfish/jersey/client/internal/URLConnectionor.java

1.56 jersey-container-servlet-core 2.27

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* /opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-
jar/org/glassfish/jersey/servlet/ServletContainer.java
* /opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-
jar/org/glassfish/jersey/servlet/WebServletConfig.java
* /opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-
jar/org/glassfish/jersey/servlet/WebComponent.java
* /opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-
jar/org/glassfish/jersey/servlet/ServletPropertiesDelegate.java
* /opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-
jar/org/glassfish/jersey/servlet/WebConfig.java
* /opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-
jar/org/glassfish/jersey/servlet/ServletProperties.java
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/opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-
jar/org/glassfish/jersey/servlet/WebFilterConfig.java
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jar/org/glassfish/jersey/servlet/internal/package-info.java
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jar/org/glassfish/jersey/servlet/spi/AsyncContextDelegate.java
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* /opt/cola/permits/182871075_1695334117.1439912/0/jersey-container-servlet-core-2-27-sources-jar/org/glassfish/jersey/servlet/internal/spi/NoOpServletContainerProvider.java

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1.58 jersey-container-servlet 2.27

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1.59 jersey-media-jaxb 2.27

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jar/org/glassfish/jersey/jaxb/internal/AbstractJaxbElementProvider.java

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jar/org/glassfish/jersey/jaxb/internal/XmlRootElementJaxbProvider.java
* /opt/cola/permits/182875846_1695334150.3928814/0/jersey-media-jaxb-2-27-sources-
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`java/io/PrintStream``java/lang/Object``java/lang/StringBuilder``java/lang/System``license``Text`

`lineSeparator``main``org/bouncycastle/LICENSE``org/bouncycastle/util/Strings``out``portions of the`

`Software.println``$subject to the following conditions:``toString`

!"&'Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V(Ljava/lang/String;)V-

(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4\$5,5*68 09 1:

->

.;

/;

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/?

2<Code!1. #4H*C %7H

@ABH/YDFGFGFFGF

FGFFGFFGFFGFGF FGF

FGFGFFGFFGFFGFFGFFGFFEA

1.61 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.62 httpcomponents-core 4.4.10

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1.63 failureaccess 1.0.1

1.64 byte-buddy 1.9.10

1.65 jcl-over-slf4j 1.7.25

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```

Found in path(s):

```
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/LogFactory.java
*
/opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/impl/SLF4JLog.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-
jar/org/apache/commons/logging/impl/NoOpLog.java
```

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Found in path(s):

* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/package.html

1.66 xom 1.2.10

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Version 2.1, February 1999

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1.76 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.77 ezmorph 1.0.6

1.78 caffeine 2.7.0

1.79 disruptor 3.3.6

1.80 reflections 0.9.9

1.81 v8 4.6.85.31

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Written by: Philip Hazel
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A. HISTORY OF THE SOFTWARE
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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
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.82 jcodings 1.0.18

1.83 joni 2.1.11

1.84 jdom 1.0

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```
/*--
```

```
$Id: CrimsonDOMAdapter.java,v 1.16 2004/02/06 09:28:31 jhunter Exp $
```

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* /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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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/TextBuffer.java

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

/*--

\$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/ContentList.java

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\$Id: OrFilter.java,v 1.4 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/filter/OrFilter.java

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\$Id: DocType.java,v 1.31 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/DocType.java

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/*--

\$Id: DOMOutputter.java,v 1.41 2004/09/03 06:03:42 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/DOMOutputter.java

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/*--

\$Id: JaxenXPath.java,v 1.19 2004/09/03 07:27:39 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/xpath/JaxenXPath.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: 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: IllegalTargetException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp \$

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\$Id: Filter.java,v 1.9 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp \$

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\$Id: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp \$

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\$Id: NamespaceStack.java,v 1.13 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/NamespaceStack.java

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

/*--

\$Id: JDOMFactory.java,v 1.8 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/JDOMFactory.java

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/*--

\$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/AttributeList.java

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/*--

\$Id: IllegalNameException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/IllegalNameException.java
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\$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/ContentFilter.java
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/*--

\$Id: IllegalDataException.java,v 1.13 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/IllegalDataException.java

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\$Id: Element.java,v 1.152 2004/09/03 06:35:39 jhunter Exp \$

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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Element.java

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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

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\$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: SAXBuilder.java,v 1.89 2004/09/03 18:24:28 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: XPath.java,v 1.15 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/xpath/XPath.java
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/*--

\$Id: JDOMSource.java,v 1.18 2004/08/31 04:43:48 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/JDOMSource.java

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/*--

\$Id: DOMAdapter.java,v 1.21 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/DOMAdapter.java
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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: JDOMResult.java,v 1.23 2004/08/31 06:10:38 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/transform/JDOMResult.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: 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: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/EntityRef.java

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\$Id: Parent.java,v 1.12 2004/08/31 21:47:51 jhunter Exp \$

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\$Id: Content.java,v 1.5 2004/09/07 06:37:20 jhunter Exp \$

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\$Id: AbstractDOMAdapter.java,v 1.20 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 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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Found in path(s):

* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/AbstractFilter.java
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\$Id: NegateFilter.java,v 1.3 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/filter/NegateFilter.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: 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: Verifier.java,v 1.51 2004/08/31 21:58:55 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Verifier.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: AndFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: Text.java,v 1.24 2004/02/27 11:32:57 jhunter Exp \$

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\$Id: DOMBuilder.java,v 1.59 2004/09/03 06:03:41 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: Document.java,v 1.84 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/Document.java

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\$Id: JDOMLocator.java,v 1.3 2004/02/06 09:28:32 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: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp \$

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Found in path(s):

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\$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp \$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/SAXHandler.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: OracleV2DOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp \$

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\$Id: DefaultJDOMFactory.java,v 1.6 2004/09/01 05:25:38 jhunter Exp \$

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\$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp \$

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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):

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1.89 re2j 1.1

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 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/reflect/TypeToken.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/Primitives.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/\$Gson\$Preconditions.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonSerializer.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/InstanceCreator.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonIOException.java
 - *
 - /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/DefaultDateTypeAdapter.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/Expose.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/Gson.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/Until.java
 - * /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/Excluder.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/TypeAdapter.java
*
/opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/JsonTreeReader.java
*
/opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
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jar/com/google/gson/internal/LinkedTreeMap.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/LinkedHashMap.java
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jar/com/google/gson/JsonSyntaxException.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/FieldAttributes.java
*
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/JsonAdapter.java

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jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/JavaVersion.java
*
/opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/reflect/ReflectionAccessor.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/internal/PreJava9DateFormatProvider.java

1.94 dnsjava 2.1.7

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- Unnamed - log4j:log4j:jar:1.2.12
- Unnamed - logkit:logkit:jar:1.0.1

1.100 commons-digester 1.8

1.100.1 Available under license :

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```
/* $Id: PluginManager.java 471661 2006-11-06 08:09:25Z skitching $
```

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jar/org/apache/commons/digester/plugins/PluginManager.java

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/* \$Id: PluginRules.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/PluginRules.java

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/* \$Id: LogUtils.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/LogUtils.java
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/* $Id: SetPropertyRule.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/SetPropertyRule.java
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jar/org/apache/commons/digester/substitution/MultiVariableExpander.java
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jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java
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/* \$Id: CircularIncludeException.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/CircularIncludeException.java
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jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltMethod.java
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/* \$Id: SetRootRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: VariableAttributes.java 471661 2006-11-06 08:09:25Z skitching \$

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*/opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/substitution/VariableAttributes.java

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/* \$Id: FinderFromResource.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: VariableExpander.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: InitializableRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: ParserFeatureSetterFactory.java 476205 2006-11-17 16:43:10Z dennisl \$

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/SetPropertiesRule.java

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

/* \$Id: FinderFromMethod.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/FinderFromMethod.java

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/* \$Id: Declaration.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/Declaration.java

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/* \$Id: Substitutor.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/Substitutor.java

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/* \$Id: Digester.java 480169 2006-11-28 19:37:36Z rahul \$

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/* \$Id: ObjectParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: PluginException.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/PluginException.java
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/* \$Id: VariableSubstitutor.java 471661 2006-11-06 08:09:25Z sketching \$

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jar/org/apache/commons/digester/substitution/VariableSubstitutor.java
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/* \$Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl \$

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Found in path(s):

*/opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java
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/* \$Id: PathCallParamRule.java 471661 2006-11-06 08:09:25Z skitching \$
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/* \$Id: DigesterLoader.java 471661 2006-11-06 08:09:25Z skitching \$
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jar/org/apache/commons/digester/xmlrules/DigesterLoader.java
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/* \$Id: DigesterRuleParser.java 471661 2006-11-06 08:09:25Z skitching \$
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jar/org/apache/commons/digester/xmlrules/DigesterRuleParser.java
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/* \$Id: BeanPropertySetterRule.java 471661 2006-11-06 08:09:25Z skitching \$
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/* \$Id: FactoryCreateRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching \$

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-  
jar/org/apache/commons/digester/SetNestedPropertiesRule.java
```

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```
/* $Id: RulesBase.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/RulesBase.java
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```
/* $Id: PluginInvalidInputException.java 476205 2006-11-17 16:43:10Z dennisl $
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jar/org/apache/commons/digester/plugins/PluginInvalidInputException.java

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jar/org/apache/commons/digester/RegexRules.java
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/* $Id: LoaderFromStream.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/plugins/strategies/LoaderFromStream.java
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jar/org/apache/commons/digester/AbstractRulesImpl.java
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- *
- /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/substitution/package.html
- * /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/overview.html
- * /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/package.html
- * /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/package.html
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jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java

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/* \$Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl \$

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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/CallMethodRule.java

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/* \$Id: NodeCreateRule.java 472835 2006-11-09 09:59:53Z skitching \$

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```
/* $Id: PluginCreateRule.java 471661 2006-11-06 08:09:25Z skitching $
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/* \$Id: StackAction.java 476205 2006-11-17 16:43:10Z dennisl \$

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Found in path(s):

* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/StackAction.java

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/* \$Id: ObjectCreateRule.java 471661 2006-11-06 08:09:25Z skitching \$

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

```
/* $Id: ObjectCreationFactory.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/ObjectCreationFactory.java
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/* $Id: PluginDeclarationRule.java 472837 2006-11-09 10:07:51Z skitching $
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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java
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/* $Id: LoaderSetProperties.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-
jar/org/apache/commons/digester/plugins/strategies/LoaderSetProperties.java
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```

17 20:00:50Z rahul \$

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Found in path(s):

```
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jar/org/apache/commons/digester/package.html
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```
/* $Id: SetTopRule.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/SetTopRule.java

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/* \$Id: FromXmlRuleSet.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/FromXmlRuleSet.java

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/* \$Id: FinderSetProperties.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: Rules.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul \$

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jar/org/apache/commons/digester/plugins/PluginContext.java

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/* \$Id: RuleLoader.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: LoaderFromClass.java 472842 2006-11-09 10:19:56Z skitching \$

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jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java
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```
/* $Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl $
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jar/org/apache/commons/digester/RuleSet.java

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1.105 findbugs-annotations 1.3.9-1

1.106 jersey-guice 1.9

1.107 commons-io 2.6

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1.108 json-java 20160810

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1.109 gson 2.8.2

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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/$Gson$Types.java
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jar/com/google/gson/internal/LinkedHashMap.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/LinkedTreeMap.java
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jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/annotations/JsonAdapter.java
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jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonPrimitive.java
*
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonArray.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/DefaultDateTypeAdapter.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/ObjectConstructor.java
*
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/Gson.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonElement.java
*
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Primitives.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
*
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
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*
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java

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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
*
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/ConstructorConstructor.java
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jar/com/google/gson/internal/bind/DateTypeAdapter.java
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jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonScope.java
*
/opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonReader.java
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```

Found in path(s):

```
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Streams.java
```

1.110 leveldbjni-all 1.8

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1.112 servlet-api 2.5

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* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/j2ee_1_4.xsd

* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/jsp_2_0.xsd

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<xsd:enumeration value="CONFIDENTIAL"/>

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* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/web-app_2_5.xsd

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jar/javax/servlet/resources/javaee_web_services_client_1_2.xsd

* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/javaee_5.xsd

* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/jsp_2_1.xsd

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* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/web-app_2_2.dtd

1.113 core 3.1.1

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1.115 guava 15.0

1.116 transaction-api 1.1

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1.124 j2objc-annotations 1.3

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* /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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Found in path(s):

```
* /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
```

1.125 jersey-server 1.19

1.126 protobuf-java 2.5.0

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* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Utf8.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/MessageLite.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/Service.java
*
/opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/TextFormat.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/LiteralByteString.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/FieldSet.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/BlockingService.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/WireFormat.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/MessageOrBuilder.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/InvalidProtocolBufferException.java
*
/opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/ExtensionRegistry.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/ServiceException.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/BlockingRpcChannel.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/SingleFieldBuilder.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/BoundedByteString.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/Descriptors.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/DynamicMessage.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/GeneratedMessage.java
*
/opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/RpcController.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-
jar/com/google/protobuf/MessageLiteOrBuilder.java
```

* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedInputStream.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyStringArrayList.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ByteString.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RopeByteString.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UninitializedMessageException.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ProtocolMessageEnum.java
*
/opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/SmallSortedMap.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcUtil.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Parser.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Internal.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractMessageLite.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractParser.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedOutputStream.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyStringList.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/GeneratedMessageLite.java
*
/opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Message.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcChannel.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RepeatedFieldBuilder.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcCallback.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UnknownFieldSet.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyField.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ExtensionRegistryLite.java
* /opt/cola/permits/1000966244_1646171545.31/0/protobuf-java-2-5-0-sources-jar/com/google/protobuf/AbstractMessage.java

1.127 jaxen 1.1.6

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 * $Header$
 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* \$Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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jar/org/jaxen/expr/DefaultMultiplicativeExpr.java

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* \$Header\$

* \$Revision: 1161 \$

* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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*

* \$Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathSyntaxException.java
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/*

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* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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* \$Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.java

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* \$Revision: 1235 \$

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*

* \$Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LocationPath.java

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* \$Revision: 1128 \$

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*
* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java
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```

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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Verifier.java

```

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

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/*
* $Header$
* $Revision: 1222 $
* $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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 *
 * \$Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo \$
 */

Found in path(s):
 * /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathFunctionContext.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header\$
 * \$Revision: 1128 \$
 * \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
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* $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathHandler.java
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* \$Revision: 1128 \$
* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
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* \$Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NoNodeTest.java
No license file was found, but licenses were detected in source scan.

/*

* \$Header\$

* \$Revision: 1261 \$

* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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* \$Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPathExpr.java
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* \$Revision: 1326 \$

* \$Date: 2008-04-26 18:56:10 -0700 (Sat, 26 Apr 2008) \$

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* \$Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo \$
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FilterExpr.java
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* \$Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo \$

*/

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* \$Revision: 1157 \$

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* \$Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo \$

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* \$Revision: 1335 \$

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* \$Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo \$
*/

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* \$Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo \$

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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Id: DefaultAbsolutePath.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultAbsolutePath.java

```

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

```

/*
 * $Header$
 * $Revision: 1226 $
 * $Date: 2006-11-08 07:44:33 -0800 (Wed, 08 Nov 2006) $
 *
 * =====
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 *
 * $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
 */

```


Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/ProcessingInstructionNodeStep.java

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/*

\$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo \$

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Found in path(s):

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/*

* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*

* \$Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/DefaultNavigator.java

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

```
/*
 * $Header$
 * $Revision: 1261 $
 * $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
 *
 * =====
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 * Jaxen Project, please see <http://www.jaxen.org/>.
```

*
* \$Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultNumberExpr.java

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* \$Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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* \$Header\$

* \$Revision: 1345 \$

* \$Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) \$

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* \$Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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/*

* \$Header\$
* \$Revision: 1321 \$
* \$Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) \$

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*

* \$Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.java

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\$Id: NamedAccessNavigator.java 1128 2006-02-05 21:49:04Z elharo \$

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* \$Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* \$Revision: 1366 \$
* \$Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) \$
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* \$Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* \$Revision: 1161 \$

* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenException.java

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/*

* \$Header\$

* \$Revision: 1337 \$

* \$Date: 2008-12-02 17:58:10 -0800 (Tue, 02 Dec 2008) \$

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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathFactory.java
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```

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* $Header$
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* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

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 *
 * $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
```

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.java

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

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* \$Revision: 1162 \$

* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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*
* \$Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom4j/Dom4jXPath.java
No license file was found, but licenses were detected in source scan.

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* \$Header\$

* \$Revision: 1300 \$

* \$Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) \$

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*
* $Id: Predicate.java 1300 2007-05-02 14:27:46Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicate.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*

* \$Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NotFunction.java

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* \$Header\$

* \$Revision\$

* \$Date\$

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*

* \$Id\$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NodeComparator.java

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* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*
* \$Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.java
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* \$Header\$
* \$Revision: 1302 \$
* \$Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) \$
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* \$Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/SelfAxisIterator.java

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* \$Header\$

* \$Revision: 1279 \$

* \$Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) \$

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 *
 * \$Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo \$
 */

Found in path(s):
 * /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
 jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java
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 * \$Revision: 1162 \$
 * \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$
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*
* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableSelfAxis.java
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/*
* $Header$

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```

* $Revision: 1332 $
* $Date: 2008-10-18 06:29:28 -0700 (Sat, 18 Oct 2008) $
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* $Id: DefaultEqualityExpr.java 1332 2008-10-18 13:29:28Z elharo $
*/

```

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualityExpr.java
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* \$Revision: 1162 \$

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* \$Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo \$
*/

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* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$
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* \$Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableNamespaceAxis.java

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* \$Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.java

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

/*

* \$Header\$

* \$Revision: 1261 \$

* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

*

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*
* \$Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnaryExpr.java

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* \$Header\$
* \$Revision: 1162 \$
* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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*

* \$Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterablePrecedingAxis.java

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* \$Revision: 1162 \$

* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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*

* \$Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathExpr.java

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* \$Revision: 1261 \$

* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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*
* $Id: DefaultGreaterThanOrEqualExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultGreaterThanOrEqualExpr.java
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```

```

/*
* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
*
* =====
*

```



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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.java
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```

```

/*

```

* \$Header\$
* \$Revision: 1255 \$
* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$
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* \$Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java

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* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* \$Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* \$Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java
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/*

\$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo \$

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* \$Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultArithExpr.java
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* \$Revision: 1171 \$

* \$Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) \$

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* \$Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/dom4j/DocumentNavigator.java

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* \$Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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* \$Revision: 1396 \$

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*

* \$Id: DefaultEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
No license file was found, but licenses were detected in source scan.

/*

* \$Header\$
* \$Revision: 1128 \$
* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
*

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*
* \$Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultExpr.java
No license file was found, but licenses were detected in source scan.

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* \$Header\$
* \$Revision: 1128 \$
* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*
* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/NormalizeSpaceFunction.java

```

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/*
* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
*
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*
* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultGreaterThanExpr.java

```

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```

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 * $Header$
 * $Revision: 1133 $
 * $Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) $
 *
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 *
 * $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $

```

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java
No license file was found, but licenses were detected in source scan.

/*

* \$Header\$

* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

*

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* \$Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/SingleObjectIterator.java

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/*

* \$Header\$

* \$Revision: 1162 \$

* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableDescendantAxis.java

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* \$Revision: 1128 \$

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* \$Id: Operator.java 1128 2006-02-05 21:49:04Z elharo \$
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* \$Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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* \$Id: DefaultPlusExpr.java 1261 2006-11-30 18:49:27Z elharo \$

*/

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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
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* \$Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo \$
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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
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```

Found in path(s):

```
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 *
```


* \$Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/LocalNameFunction.java

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* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*
* \$Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/SubstringBeforeFunction.java

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* \$Revision: 1128 \$

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* \$Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/TrueFunction.java

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* \$Header\$

* \$Revision: 1162 \$

* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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*
* \$Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableAncestorAxis.java

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* \$Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternParser.java
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*
* \$Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* \$Header\$
* \$Revision: 1252 \$
* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$
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* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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/*
* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultLessThanEqualExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultLessThanEqualExpr.java

```

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```

* $Header$
* $Revision: 1251 $
* $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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* $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
*/

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java

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* \$Revision: 1162 \$

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* \$Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableFollowingAxis.java

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* \$Revision: 1261 \$

* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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* \$Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo \$

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* \$Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo \$

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*

* \$Id: DefaultTextNodeStep.java 1261 2006-11-30 18:49:27Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultTextNodeStep.java

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* \$Revision: 1252 \$

* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$

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*

* \$Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/RelationalExpr.java

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* \$Header\$

* \$Revision: 1162 \$

* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo \$
 */

Found in path(s):
 * /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
 jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
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/*
 \$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo \$

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* \$Header\$

* \$Revision: 1261 \$

* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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 *
 * \$Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo \$
 */

Found in path(s):
 * /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultModExpr.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header\$
 * \$Revision: 1128 \$
 * \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
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*
* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/IdFunction.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $

```

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*
* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultCommentNodeStep.java

```

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 * $Header$
 * $Revision: 1159 $
 * $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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 * =====
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* \$Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleNamespaceContext.java

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* \$Header\$

* \$Revision: 1268 \$

* \$Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) \$

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* \$Id: Step.java 1268 2006-12-10 15:32:14Z elharo \$
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
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/*
\$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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* \$Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* \$Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NameTest.java
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* \$Revision: 1300 \$
* \$Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) \$
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* \$Id: PathExpr.java 1300 2007-05-02 14:27:46Z elharo \$

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* \$Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo \$
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/RoundFunction.java
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*
* \$Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

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

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* \$Header\$
* \$Revision: 1162 \$
* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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*
* \$Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableParentAxis.java
No license file was found, but licenses were detected in source scan.

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* \$Header\$
* \$Revision: 1128 \$
* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
*
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*

* \$Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java

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

/*

* \$Header\$

* \$Revision: 1193 \$

* \$Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) \$

*

```

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*
* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java

```


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

```
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 * $Header$
 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 *
```

* \$Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/TranslateFunction.java

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* \$Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/AnyChildNodeTest.java

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* \$Header\$

* \$Revision: 1273 \$

* \$Date: 2007-01-03 12:47:42 -0800 (Wed, 03 Jan 2007) \$

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* \$Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLiteralExpr.java

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/*

* \$Header\$

* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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*
* \$Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/LinkedIterator.java
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* \$Revision: 1261 \$
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* \$Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFilterExpr.java

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* \$Id: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo \$

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/*

\$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins \$

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* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/CountFunction.java
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```

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* $Header$
* $Revision: 1232 $
* $Date: 2006-11-08 08:37:59 -0800 (Wed, 08 Nov 2006) $
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* \$Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FunctionCallExpr.java

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* \$Header\$

* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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*
* $Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/FollowingAxisIterator.java

```

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

```

/*

```

```

$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/ContextSupport.java
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* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*
* $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ConcatFunction.java

```

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```

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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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*
* $Id: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultLessThanExpr.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $

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* \$Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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```
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 * $Header$
 * $Revision: 1134 $
 * $Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) $
 *
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* \$Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/Pattern.java

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* \$Header\$

* \$Revision: 1161 \$

* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/XPathSyntaxException.java

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* \$Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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* \$Revision: 1261 \$

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* \$Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo \$

*/

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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

```

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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/PrecedingSiblingAxisIterator.java
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* \$Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo \$
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* \$Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo \$

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* \$Revision: 1161 \$

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 *
 * \$Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo \$
 */

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.java

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

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 * \$Header\$
 * \$Revision: 1128 \$
 * \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
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* \$Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/UnionPattern.java
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* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*
* $Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/CeilingFunction.java
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```

/*

\$Id: Context.java 1219 2006-10-15 21:08:16Z elharo \$

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Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/Context.java

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

/*

* \$Header\$

* \$Revision: 1241 \$

* \$Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) \$

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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicated.java

```

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```

/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $

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* $Id: Token.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java
```

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

```
/*
 * $Header$
 * $Revision: 1160 $
 * $Date: 2006-06-03 13:26:02 -0700 (Sat, 03 Jun 2006) $
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```

* \$Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/UnsupportedAxisException.java

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

/*

* \$Header\$

* \$Revision: 1234 \$

* \$Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) \$

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* \$Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java
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* \$Revision: 1247 \$
* \$Date: 2006-11-08 11:06:30 -0800 (Wed, 08 Nov 2006) \$
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* \$Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnaryExpr.java

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* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* \$Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo \$

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternHandler.java

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* \$Header\$

* \$Revision: 1159 \$

* \$Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/UnresolvableException.java

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* \$Header\$

* \$Revision: 1225 \$

* \$Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) \$

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* \$Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo \$

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Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/CommentNodeStep.java

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/*

* \$Header\$

* \$Revision: 1198 \$

* \$Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) \$

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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

```

```

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java
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```

/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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*
* $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAllNodeStep.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1159 $

```

* \$Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) \$

*

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* \$Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleVariableContext.java

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

```
/*
 * $Header$
 * $Revision: 1325 $
 * $Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) $
 *
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 *
```

* \$Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/MultiplicativeExpr.java

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/*

* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/SubstringFunction.java

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

/*

* \$Header\$

* \$Revision: 1154 \$

* \$Date: 2006-06-01 06:19:30 -0700 (Thu, 01 Jun 2006) \$

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*

* \$Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/QualifiedName.java

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/*

* \$Header\$

* \$Revision: 1179 \$

* \$Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) \$

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* \$Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/FunctionCallException.java

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/*

* \$Header\$

* \$Revision: 1248 \$

* \$Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) \$

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* \$Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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/*

* \$Header\$

* \$Revision: 1252 \$

* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$

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* \$Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java

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* \$Revision: 1162 \$

* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

```

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java
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/*
* $Header$
* $Revision: 1370 $
* $Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) $
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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/NamespaceNode.java
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```

/*
* $Header$

```

```

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* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LogicalExpr.java
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* \$Revision: 1162 \$

* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* \$Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/BooleanFunction.java
No license file was found, but licenses were detected in source scan.

/*

* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*

* \$Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NamespaceTest.java

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

/*

* \$Header\$

* \$Revision: 1396 \$

* \$Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) \$

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*
* \$Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultNotEqualsExpr.java

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* \$Header\$
* \$Revision: 1261 \$
* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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 *
 * \$Id: Expr.java 1261 2006-11-30 18:49:27Z elharo \$
 */

Found in path(s):
 * /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Expr.java
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 * \$Header\$
 * \$Revision: 1261 \$
 * \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$
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*

* \$Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAndExpr.java

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

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* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyNodeTest.java
No license file was found, but licenses were detected in source scan.

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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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*
* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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* $Header$

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* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java

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* \$Revision: 1161 \$

* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java
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* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/FalseFunction.java
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```
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* $Header$
* $Revision: 1245 $
* $Date: 2006-11-08 10:52:02 -0800 (Wed, 08 Nov 2006) $
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* \$Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/TextNodeStep.java
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* \$Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/StackedIterator.java

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/*

* \$Header\$

* \$Revision: 1132 \$

* \$Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) \$

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* $Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenHandler.java
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*

* \$Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/TextNodeTest.java

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/*

\$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.java

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/*

* \$Header\$

* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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* \$Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
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* \$Header\$
* \$Revision: 1128 \$
* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
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* \$Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo \$
 */

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
 jar/org/jaxen/pattern/LocationPathPattern.java

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 * \$Revision: 1255 \$
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/DescendantAxisIterator.java

```

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* \$Revision: 1128 \$
* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
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*
* \$Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LowerFunction.java

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* \$Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleFunctionContext.java
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/*

* \$Header\$

* \$Revision: 1261 \$

* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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*  
* $Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $  
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnionExpr.java  
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```
/*  
* $Header$  
* $Revision: 1367 $  
* $Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) $  
*  
* =====  
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* \$Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* \$Revision: 1128 \$

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* \$Id: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo \$
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* \$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/xslt/DocumentFunction.java

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* \$Header\$

* \$Revision: 1156 \$

* \$Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo \$
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/*

* \$Header\$
* \$Revision: 1258 \$
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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
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*

* \$Id: \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java

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

/*

* \$Header\$

* \$Revision: 1324 \$

* \$Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) \$

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*
* \$Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/StringLengthFunction.java

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

/*

* \$Header\$

* \$Revision: 1252 \$

* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$

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*
* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/AdditiveExpr.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
*
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*

* \$Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathReader.java

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

/*

* \$Header\$

* \$Revision: 1161 \$

* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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*

* \$Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/SAXPathException.java

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/*

* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* \$Id: Function.java 1128 2006-02-05 21:49:04Z elharo \$

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Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/Function.java

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* \$Header\$

* \$Revision: 1168 \$

* \$Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) \$

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 *
 * \$Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo \$
 */

Found in path(s):
 * /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header\$
 * \$Revision: 1237 \$
 * \$Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) \$
 *
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* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $
*/

```

```

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NumberExpr.java
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```

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/*
* $Header$

```

```

* $Revision: 1228 $
* $Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
*/

```

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnionExpr.java
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* \$Revision: 1168 \$

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* \$Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/VariableContext.java
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* \$Revision: 1128 \$
* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$
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* \$Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* \$Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/ext/EndsWithFunction.java

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* \$Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo \$

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* \$Header\$

* \$Revision: 1277 \$

* \$Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) \$

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*
* $Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultBinaryExpr.java
No license file was found, but licenses were detected in source scan.

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/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* \$Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/ext/UpperFunction.java

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/*

* \$Header\$

* \$Revision: 1364 \$

* \$Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) \$

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* \$Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo \$

*/

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/*

* \$Header\$

* \$Revision: 1261 \$

* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPredicate.java
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/*

```

* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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*
* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

```

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/AllNodeStep.java

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* \$Header\$

* \$Revision: 1236 \$

* \$Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) \$

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* \$Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java
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/*

* \$Header\$

* \$Revision: 1334 \$

* \$Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) \$

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*
* $Id: TokenType.java 1334 2008-11-29 17:58:48Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/TokenType.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* \$Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.java
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* \$Header\$
* \$Revision: 1161 \$
* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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* \$Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo \$

*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java

1.128 c-ares 1.8.0

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1.129 libuv 1.8.0

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*/

```

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \
    uv__io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \
    int rcount; \
    int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
Files: *
=====

```

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```

Files: getopt.c
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1/ !

"#

```
$%&'this$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementP  
arserImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses5Lorg/jvnet/licensetool/argparser/ElementP  
arserImpl$3;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/  
Object;x0Ljava/lang/Object;
```

```
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;  
SourceFileElementParserImpl.javaEnclosingMethod(),
```

-

```
java/lang/String3org/jvnet/licensetool/argparser/ElementParserImpl$3java/lang/Object+org/jvnet/licensetool/generic  
/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImpl  
getSimpleData.
```

```
ResultDataQ(Ljava/lang/Class;)Lorg/jvnet/licensetool/argparser/ElementParserImpl$ResultData;()V<org/jvnet/licen  
setool/argparser/ElementParserImpl$ResultData
```

4
 +
 6+
 A= *+
 *+
 1X : ; < =
 >
 ?
 @A
 BC D
 @EF
 GHIval\$sepLjava/lang/String;val\$elementClassLjava/lang/Class;val\$elementResultDataJ
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W*+Q RS)T@UCV,4)<'=>E-0EE'7B#47B5FG*E Y
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fileBlocksLjava/util/List;

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Exceptions

postParse()VsniffLineSeparator()Ljava/lang/String;blockContentb"Lorg/jvnet/licensetool/file/Block;i\$Ljava/util/Iterator;

separatorgetComments()Ljava/util/List;blocksLocalVariableTypeTable;Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;=()Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;insertCommentBlock(Ljava/lang/String;VcommentTextcb)Lorg/jvnet/licensetool/file/CommentBlock;adjustBlockAtIndex(I)VcontentIremove,(Lorg/jvnet/licensetool/file/CommentBlock;)VwriteTo+(Lorg/jvnet/licensetool/file/FileWrapper;)VblockfwcreateCommentBlock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;

SourceFileMultiLineCommentFile.java<@Aj67java/util/ArrayListAMNOP::'org/jvnet/licensetool/file/CommentBlock

org/jvnet/licensetool/file/BlockTopCommentBlock^%org/jvnet/licensetool/file/PlainBlockPOline.separatorANmnbca^gNjjava/lang/StringBuilderSkipping file because is is not

writableP^N;;;m)org/jvnet/licensetool/MultiLineCommentFile\$MultiLineCommentFileParser\$BlockCommentParsedFile%org/jvnet/licensetool/file/ParsedFileEorg/jvnet/licensetool/MultiLineCommentFile\$MultiLineCommentFileParserjava/io/IOException

access\$000(Lorg/jvnet/licensetool/MultiLineCommentFile\$MultiLineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;(Ljava/util/Collection;)Vjava/util/Listget(I)Ljava/lang/Object;addTagiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;contents#org/jvnet/licensetool/util/ToolUtil&(Ljava

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/lang/String;)Ljava/lang/String;java/lang/SystemgetPropertyadd(Ljava/lang/Object;)Z(ILjava/lang/Object;)Vjava/lang/String
startsWith(Ljava/lang/String;)Z&org/jvnet/licensesetool/file/FileWrappercanWritedelete/org/jvnet/licensesetool/file/File
Wrapper$OpenModeOpenModeWRITE1Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;open4(Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;)Vwrite*org/jvnet/licensesetool/MultiLineCommentFile
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@ ABCx,*+*,**Y+,* ** D
#+E,FH,IJKLMNCU#*
*
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*,*DE FH_`;abcC?*
M,,N-* *Y* D(>E*d;?FH?ef1RSghCD*+ WD
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1T 0 1
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=>
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ption;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/Object;x0Ljava/lang/Object;SignatureeLjava/lang/Object;Lorg/jvnet/licensesetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethodCDGHIJK"java/lang/IllegalArgumentExce
ptionjava/lang/RuntimeExce
ptionjava/lang/StringBuilderLM is not in enum NOPQPRjava/lang/String
!3org/jvnet/licensesetool/argparser/ElementParserImpl$4java/lang/Object+org/jvnet/licensesetool/generic/UnaryFunction1org/jvnet/licensesetool/argparser/ElementParserImpl
getSimpleDataS
ResultDataQ(Ljava/lang/Class;)Lorg/jvnet/licensesetool/argparser/ElementParserImpl$ResultData;()Vjava/lang/Enum valueOf5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;java/lang/ClassgetName(Ljava/lang/String;toString(Ljava/lang/String;)
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:-W-{ |},~?H}N\ ? #$,%8&'3(0*)P P+ G,'=-.A!/= *+
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  <div><p class="releaseinfo">This is the first released version of the Lesser GPL. It also counts
    as the successor of the GNU Library Public License, version 2, hence
    the version number 2.1.</p></div>
  <div><p class="copyright">Copyright &copy; 1991, 1999 Free Software Foundation, Inc.</p></div>
  <div>
    <div class="legalnotice"><a name="gpl-legalnotice"></a>

    <p>

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  </p>

  <div class="address"><p>Free&nbsp;Software&nbsp;Foundation,&nbsp;Inc.<br>
    &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<span
class="street">51&nbsp;Franklin&nbsp;Street,&nbsp;Fifth&nbsp;Floor</span>,<br>
    &nbsp;&nbsp;&nbsp;&nbsp;<span class="city">Boston</span>,<br>
    &nbsp;&nbsp;&nbsp;&nbsp;<span class="state">MA</span><br>
    &nbsp;&nbsp;&nbsp;&nbsp;<span class="postcode">02110-1301</span><br>
    &nbsp;&nbsp;&nbsp;&nbsp;<span class="country">USA</span><br>
  </p></div>
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    copies of this license document, but changing it is not
    allowed.</p></div>
  </div>
  <div><p class="pubdate">Version 2.1, February 1999</p></div>
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      <div><h2 class="title" style="clear: both"><a name="lgpl-1"></a>Preamble</h2></div>
      </div>
    </div>
  </div>
  <p>The licenses for most software are designed to take away your
    freedom to share and change it. By contrast, the GNU General Public
    Licenses are intended to guarantee your freedom to share and change
    free software--to make sure the software is free for all its users.</p>

  <p>This license, the Lesser General Public License, applies to some
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    Free Software Foundation and other authors who decide to use it. You
    can use it too, but we suggest you first think carefully about whether
    this license or the ordinary General Public License is the better
    strategy to use in any particular case, based on the explanations below.</p>

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<p>When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.</p>

<p>To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.</p>

<p>For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.</p>

<p>We protect your rights with a two-step method:
</p>

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<div class="orderedlist">  
  <ol type="1">  
    <li><p>we copyright the library, and</p></li>  
    <li><p>we offer you this license, which gives you legal  
      permission to copy, distribute and/or modify the library.</p></li>  
  </ol>  
</div>  
<p>  
</p>
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<p>To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.</p>

<p>Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.</p>

<p>Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.</p>

<p>When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.</p>

<p>We call this license the Lesser General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.</p>

<p>For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.</p>

<p>In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.</p>

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The

former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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Section 0

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A library; means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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Library; means either the Library or any derivative work under

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portion of it, either verbatim or with modifications

and/or translated

straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term modification;.)

Source code; for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation and installation of the library.

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it). Whether that is true depends on what the Library does and what the program that uses the Library does.

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 1</h3></div>

</div>

</div>

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<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 2</h3></div>

</div>

</div>

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of [Section 1](#lgpl-2-1) above, provided that you also meet all of these conditions:

</p>

<div class="orderedlist">

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<p>The modified work must itself be a software library.</p>

<p>You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.</p>

<p>You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.</p>

<p>If a facility in the modified

Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.</p>

<p>(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.)</p>

</div>

<p>

</p>

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<p>In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 3</h3></div>

</div>

</div>

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this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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</div>
```

You may copy and distribute the Library (or a portion or derivative of it, under [Section 2](#lgpl-2-2)) in object code or executable form under the terms of [Sections 1](#lgpl-2-1) and [Section 2](#lgpl-2-2) above

provided

that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of [Sections 1](#lgpl-2-1) and [Section 2](#lgpl-2-2) 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.

```
<div class="section" lang="en">
```

```
<div class="titlepage">
```

```
<div>
```

```
<div><h3 class="title"><a name="lgpl-2-5"></a>Section 5</h3></div>
```

```
</div>
```

```
</div>
```

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 library. The executable is therefore covered by this License. [Section 6](#lgpl-2-6 "Section 6") states terms for distribution of such executables.

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](#lgpl-2-6 "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](#lgpl-2-6 "Section 6").

Any executables containing that work also fall under [Section 6](#lgpl-2-6 "Section 6"),

whether or not they are linked directly with the Library itself.

[Section 6](#lgpl-2-6 "Section 6")

As an exception to the Sections above, you may also combine 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.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution

displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one

of these things:

</p>

<div class="orderedlist">

<ol type="a">

<p>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.)</p>

<p>Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.</p>

<p>Accompany the work with a written offer, valid for at least three years, to give the same user

the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.</p>

<p>If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.</p>

<p>Verify that the user has already received a copy of these materials or that you have already sent this user a copy.</p>

</div>

<p>

</p>

<p>For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or

binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

the executable.</p>

<p>It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 7</h3></div>

</div>

</div>

<p>You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work

based on

the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

</p>

<div class="orderedlist">

<ol type="a">

<p>Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.</p>

<p>Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.</p>

</div>

<p>

</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 8</h3></div>

</div>

</div>

<p>You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses

terminated so long as such parties remain in full compliance.</p></div>
<div class="section" lang="en">
 <div class="titlepage">
 <div>
 <div><h3 class="title">Section 9</h3></div>
 </div>
 </div>
<p>You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.</p></div>
<div class="section" lang="en">
 <div class="titlepage">
 <div>
 <div><h3 class="title">Section 10</h3></div>
 </div>
 </div>
<p>Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.</p></div>
<div class="section" lang="en">
 <div class="titlepage">
 <div>
 <div><h3 class="title">Section 11</h3></div>
 </div>
 </div>
<p>If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.</p>

<p>If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.</p>

<p>It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.</p>

<p>This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 12</h3></div>

</div>

</div>

<p>If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.</p></div>

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 13</h3></div>

</div>

</div>

<p>The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.</p>

<p>Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and “any later version”; you have the option of following the terms and

conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 14</h3></div>

</div>

</div>

<p>If you wish to incorporate

parts of the Library into other free

programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">NO WARRANTY Section 15</h3></div>

</div>

</div>

<p>BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.

EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY

“AS IS” WITHOUT WARRANTY OF ANY

KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE

LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

<div class="section" lang="en">

<div class="titlepage">

<div>

<div><h3 class="title">Section 16</h3></div>

</div>

</div>

<p>IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN

WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU

FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR

CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE

LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING

RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.</p>

```
<p>END OF TERMS AND CONDITIONS</p></div>
</div>
<div class="section" lang="en">
  <div class="titlepage">
    <div>
      <div><h2 class="title" style="clear: both"><a name="lgpl-3"></a>How to Apply These Terms to Your New
        Libraries</h2></div>
      </div>
    </div>
  </div>
  <p>If you develop a new library, and you want it to be of the greatest
    possible use to the public, we recommend making it free software that
    everyone can redistribute and change. You can do so by permitting
    redistribution under these terms (or, alternatively, under the terms of the
    ordinary General Public License).</p>

  <p>To apply
  these terms, attach the following notices to the library. It is
  safest to attach them to the start of each source file to most effectively
  convey the exclusion of warranty; and each file should have at least the
  &#8220;<span class="quote">copyright</span>&#8221; line and a pointer to where the full notice is
  found.</p>

  <p>&lt;one line to give the library's name and a brief idea of what it does.&gt;
    Copyright (C) &lt;year&gt; &lt;name of author&gt;</p>

  <p>This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.</p>

  <p>This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.</p>

  <p>You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA</p>

  <p>Also add information on how to contact you by electronic and paper mail.</p>

  <p>You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a &#8220;<span class="quote">copyright disclaimer</span>&#8221; for the library, if
```

necessary. Here is a sample; alter the names:</p>

<p>Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.</p>

<p><signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice</p>

<p>That's all there is to it!</p></div>

</div>

</body>

</html>

12 "

#

\$%&

```
'()*this$03Lorg/jvnet/licensesetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensesetool/argparser/ElementParserImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses5Lorg/jvnet/licensesetool/argparser/ElementParserImpl$6;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/Object;x0Ljava/lang/Object;SignatureeLjava/lang/Object;Lorg/jvnet/licensesetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;SourceFileElementParserImpl.javaEnclosingMethod+,-./01java/lang/String3org/jvnet/licensesetool/argparser/ElementParserImpl$6java/lang/Object+org/jvnet/licensesetool/generic/UnaryFunction1org/jvnet/licensesetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg/jvnet/licensesetool/generic/UnaryFunction;()Vjava/lang/BytevalueOf$(Ljava/lang/String;)Ljava/lang/Byte;
```

4

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9+A

= *+ !

```
<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/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<groupId>org.jvnet.license-tool</groupId>
```

```
<artifactId>license-tool</artifactId>
```

```
<packaging>jar</packaging>
```

```
<version>1.0-SNAPSHOT</version>
```

```
<name>license-tool</name>
```

```
<url>http://maven.apache.org</url>
```

```
<build>
```

```
<plugins>
```

```
<plugin>
```

```
<artifactId>maven-compiler-plugin</artifactId>
```

```
<version>RELEASE</version>
```

```
<configuration>
```

```
<source>1.5</source>
```

```
<target>1.5</target>
```

```
</configuration>
```



```

</plugin>
<!-- modifies the license header -->
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-surefire-plugin</artifactId>

<configuration>
  <forkMode>never</forkMode>
</configuration>
</plugin>
<!-- validate the correctness of the license header -->
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-antrun-plugin</artifactId>
  <executions>
    <execution>
      <phase>test</phase>
      <configuration>
        <tasks>
          <taskdef name="licensetool" classname="org.jvnet.licensetool.LicenseToolTask">
            <classpath>
              <path refid="maven.test.classpath"/>
            </classpath>
          </taskdef>
          <licensetool srcDir="."
            validate="true"

skipdirs=".svn,.cvs"
            copyright="target/test-classes/copyright/copyright.txt"
            startyear="1997"
            dryrun="false"
            includes="target/test-classes/testsrc/">

          </licensetool>
        </tasks>
      </configuration>
    </execution>
  </executions>
</plugin>
</plugins>
</build>
<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>

```

```

    <version>3.8.1</version>
    <scope>test</scope>
</dependency>
<dependency>
    <groupId>ant</groupId>
    <artifactId>ant</artifactId>
    <version>1.6.5</version>
</dependency>
</dependencies>
</project>
1.(.*value()IRuntimeVisibleAnnotations.Lorg/jvnet/licensesetool/argparser/DefaultValue;27&Lorg/jvnet/licensesetool/ar
gparser/Help;An integer valueLake(Ljava/lang/String;MichiganThe name of a
lakecolor+PrimaryColorInnerClasses:()Lorg/jvnet/licensesetool/argparser/ArgParser$PrimaryColor;REDPick a
colorurl(Ljava/net/URL;http://www.sun.comyour favorite URL arrayData,
StringPair9()[Lorg/jvnet/licensesetool/argparser/ArgParser$StringPair;(funny:thing,another:thing,something:else#A
list of pairs of the form xxx:yyy+Lorg/jvnet/licensesetool/argparser/Separator;,listData(Ljava/util/List;
SignatureJ(Ljava/util/List<Lorg/jvnet/licensesetool/argparser/ArgParser$StringPair;>;
SourceFileArgParser.java-7org/jvnet/licensesetool/argparser/ArgParser$TestInterface
TestInterfacejava/lang/Object6org/jvnet/licensesetool/argparser/ArgParser$PrimaryColor4org/jvnet/licensesetool/argpar
ser/ArgParser$StringPair)org/jvnet/licensesetool/argparser/ArgParserss
ss
ssssss !"#$$%&'@ ' )
1
factory-Lorg/jvnet/licensesetool/generic/UnaryFunction;
SignaturexLorg/jvnet/licensesetool/generic/UnaryFunction<Ljava/lang/reflect/Method;Lorg/jvnet/licensesetool/argparse
r/ElementParser;>;describe()[Ljava/lang/String;<clinit>()VCodeLineNumberTableeLjava/lang/Object;Lorg/jvnet/lic
ensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParser.java/org/jvnet/licensesetool/argparser/ElementParser$1InnerClasses-
org/jvnet/licensesetool/argparser/ElementParserjava/lang/Object+org/jvnet/licensesetool/generic/UnaryFunction<init>
#Y.
1 *R *S
+TU
TV
W
XY
Z
P[\
[]
P^_
`a
(b
(cdefghijkl
mn
(op
q
r
stuv

```

```

(wxyz
${|
*}~val$copyrightBlock'Lorg/jvnet/licensetool/file/PlainBlock;this$0%Lorg/jvnet/licensetool/ActionFactory;<init>O
(Lorg/jvnet/licensetool/ActionFactory;Lorg/jvnet/licensetool/file/PlainBlock;)VCodeLineNumberTableLocalVariable
TablethisInnerClasses'Lorg/jvnet/licensetool/ActionFactory$4;toString()Ljava/lang/String;evaluate*(Lorg/jvnet/lic
ensetool/file/ParsedFile;)Zblock)Lorg/jvnet/licensetool/file/CommentBlock;$Ljava/util/Iterator;exclJava/io/IOExce
ption;pfile'Lorg/jvnet/licensetool/file/ParsedFile;hadAnOldSunCopyrightZcountSunCopyrightI(Ljava/lang/Object;)
Zx0Ljava/lang/Object;
SourceFileActionFactory.javaEnclosingMethod/0-
.java/lang/StringBuilder#CopyrightBlockAction[copyrightText=];*Updating copyright/license header on file
;#Insert: No Sun Copyright header in
;'org/jvnet/licensetool/file/CommentBlockjava/lang/StringSunCopyrightCopyrightBlock*Remove: More than one
Sun Copyright Block TopCommentBlock;2Replace:
First block has incorrect copyright text 8Move: Sun Copyright Block is not the first comment
blockjava/io/IOException Exception while processing file :
%org/jvnet/licensetool/file/ParsedFile<=%org/jvnet/licensetool/ActionFactory$4java/lang/Object$org/jvnet/licenset
ool/Scanner$ActionAction#org/jvnet/licensetool/ActionFactorygetModifyCopyrightActionO(Lorg/jvnet/licensetool/
file/PlainBlock;)Lorg/jvnet/licensetool/Scanner$Action;()Vappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;
access$100O(Lorg/jvnet/licensetool/ActionFactory;Lorg/jvnet/licensetool/file/ParsedFile;)ZgetPath
access$000:(Lorg/jvnet/licensetool/ActionFactory;Ljava/lang/String;)V%org/jvnet/licensetool/file/PlainBlockconten
tsinsertCommentBlock(Ljava/lang/String;)VgetComments()Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;j
ava/util/IteratorhasNext()Znext(Ljava/lang/Object;hasTags([Ljava/lang/String;)Zremove,(Lorg/jvnet/licensetool/fil
e/CommentBlock;)VhasTag(Ljava/lang/String;)Zcomment#org/jvnet/licensetool/util/ToolUtilareCommentsEqual'(L
java/lang/String;Ljava/lang/String;)ZwriteprintStackTraceorg/jvnet/licensetool/Scanner
*+,-./01239*+*,*4569;:3FY*
4569<=3Rp*+=*Y+
+*Y+
+*>+::YSYS)*Y+
+F* b*Y!+
++*1*Y"+
++*++#3:*Y%+
&
'7;>$4z &*GRTu#)47;>@gln5Hu?>_@A@.BCp69pDE gFGTHIA<J3= *+()45 69 KLMNOPQ8*,
19
)
* + , -.
/
0123MultiLineCommentFileParserInnerClassesBlockCommentParsedFilestartLjava/lang/String;endprefix<init>9(Lj
ava/lang/String;Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethisGLorg/jvnet/li
censetool/MultiLineCommentFile$MultiLineCommentFileParser;
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;file(Lorg/jvnet/licensetoo
l/file/FileWrapper;
Exceptions4parseBlocks:(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;
Signature^(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;
access$000(Lorg/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParser;Lorg/jvnet/licensetool/fil
e/FileWrapper;)Ljava/util/List;x0x1

```

SourceFileMultiLineCommentFile.java

```
5\org/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParser$BlockCommentParsedFile678Eorg/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParser%org/jvnet/licensetool/file/FileParserjava/io/IOException()Vr(Lorg/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)V*org/jvnet/licensetool/MultiLineCommentFilep(Lorg/jvnet/licensetool/file/FileWrapper;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Ljava/util/List;!
```

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```
ArgumentsInnerClassesvalidateZverbose COPYRIGHTLjava/lang/String;
ConstantValue
START_YEARLOGGERLjava/util/logging/Logger;<init>()VCodeLineNumberTableLocalVariableTablethis#Lorg/
jvnet/licensetool/LicenseTool;trace(Ljava/lang/String;)VmsggetSunCopyrightStart&(Ljava/lang/String;)Ljava/lang/
String;strindexIposchCstartmakeCopyrightBlockb(Ljava/lang/String;Lorg/jvnet/licensetool/file/PlainBlock;)Lorg/jv
net/licensetool/file/PlainBlock; startYear
copyrightTextLorg/jvnet/licensetool/file/PlainBlock;mapLjava/util/Map;
withStartLocalVariableTypeTable5Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;process0(Lorg/jvnet/licen
setool/LicenseTool$Arguments;)Vi$Ljava/util/Iterator;actionAction&Lorg/jvnet/licensetool/Scanner$Action;copyri
ghtBlockscannerLorg/jvnet/licensetool/Scanner;excLjava/io/IOException;args-
Lorg/jvnet/licensetool/LicenseTool$Arguments;
formatterLjava/util/logging/Formatter;sh!Ljava/util/logging/StreamHandler;domainLoggermain([Ljava/lang/String;)
Vstrs[Ljava/lang/String;ap+Lorg/jvnet/licensetool/argparser/ArgParser;ZLorg/jvnet/licensetool/argparser/ArgParser
<Lorg/jvnet/licensetool/LicenseTool$Arguments;>;<clinit>
SourceFileLicenseTool.javaZ[XYb Copyrightjava/lang/StringBuilder
makeCopyrightBlock: startYear = ab$makeCopyrightBlock: copyrightText = Contents of copyrightText
block:java/util/HashMap StartYear/Contents of copyrightText block withStart
date:SSRQQR#org/jvnet/licensetool/LicenseTool$1java/util/logging/StreamHandlerZorg.jvnet.licensetool
```

Main: args:

```
%org/jvnet/licensetool/file/PlainBlockZmnorg/jvnet/licensetool/ScannerZjava/lang/String
b#org/jvnet/licensetool/ActionFactory!"#"org/jvnet/licensetool/RecognizerFactory$%&java/io/IOExceptionExcepti
on while processing:
(b)[org/jvnet/licensetool/argparser/ArgParser+org/jvnet/licensetool/LicenseTool$ArgumentsZ*+,wx!org/jvnet/licen
setool/LicenseTool-
.java/lang/Object$org/jvnet/licensetool/Scanner$Actionjava/util/logging/LoggerfineindexOf(Ljava/lang/String;)Ilen
gth()IcharAt(I)Cjava/lang/CharacterisWhitespace(C)ZisDigit substring(II)Ljava/lang/String;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;contents
java/util/Mapput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;instantiateTemplate8(Ljava/util/Map;)Lo
rg/jvnet/licensetool/file/PlainBlock;
startyear(Zjava/lang/SystemoutLjava/io/PrintStream;6(Ljava/io/OutputStream;Ljava/util/logging/Formatter;)V
getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;setUseParentHandlers(Z)Vjava/util/logging/LevelFINELja
va/util/logging/Level;setLevel(Ljava/util/logging/Level;)V
addHandler(Ljava/util/logging/Handler;)V
copyright*(Lorg/jvnet/licensetool/file/FileWrapper;+(Lorg/jvnet/licensetool/file/FileWrapper;)Vdryrunroots()Ljava
/util/List;(ZLjava/util/List;)Vskipdirsjava/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNextnext()Ljava/la
ng/Object;addDirectoryToSkipgetValidateCopyrightActionO(Lorg/jvnet/licensetool/file/PlainBlock;)Lorg/jvnet/licen
setool/Scanner$Action;getModifyCopyrightActiongetDefaultRecognizer-
(Lorg/jvnet/licensetool/file/FileRecognizer;scanT(Lorg/jvnet/licensetool/file/FileRecognizer;Lorg/jvnet/licensetool/
Scanner$Action;)ZwarningprintStackTrace(Ljava/lang/Class;)Vparse'([Ljava/lang/String;)Ljava/lang/Object;java/la
ng/ClassgetName!LN
```

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SRTUVWUVXYZ[3*]
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de\k*^<=*>6* > **> *
]Bcdeghi+j4k7m:n@oOpXq[satcv^4kfUdghUihOjk:1lh
mn\^Y
*Y++YM,*W+,N--]*
,18@JPU\^^^oU^pq@rsPtqu@rv wx\2
*L** Y!M"Y#,\$N%&:'()-(*-+Y,*-Y*./:+0:1Y*2*34:*56:789: ;;Y<=:;Y<>:?Y@ABW\$:YDEFkC]n!-4:@HOUkz^
fU yz{~zpqyqd{~ oU!-4Y \uGYHIL+*JHM,K]^ u[\%
LM&]zPHLO |1}
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4

OpenModeInnerClasses

```

FileStatefileLjava/io/File;fisLjava/io/FileInputStream;isrLjava/io/InputStreamReader;readerLjava/io/BufferedReader;fosLjava/io/FileOutputStream;oswLjava/io/OutputStreamWriter;writerLjava/io/BufferedWriter;state2Lorg/jvnet/licensesetool/file/FileWrapper$FileState;<init>(Ljava/io/File;)VCodeLineNumberTableLocalVariableTablethis(Lorg/jvnet/licensesetool/file/FileWrapper;(Ljava/lang/String;)VstrLjava/lang/String;#(Ljava/io/File;Ljava/lang/String;)VrootcanWrite()ZtoString(Ljava/lang/String);
isYoungerThan+(Lorg/jvnet/licensesetool/file/FileWrapper;)Zfwdelete()VgetNamegetAbsolutePathreadLine
ExceptionsreadAsStringifileContentsLjava/lang/StringBuilder;
writeLinelinewritecloseexclLjava/io/IOException;open4(Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;)Vmode1Lorg/jvnet/licensesetool/file/FileWrapper$OpenMode;getFileState4(Lorg/jvnet/licensesetool/file/FileWrapper$FileState;copyTo-(Lorg/jvnet/licensesetool/file/FileWrapper;[B)VdataReadtargetbuffer[B getSuffixdotIndex
SourceFileFileWrapper.javaZnJKLMNOPQRSTUVWXYZjava/io/FileZaZ[ZdfghigmgooiYjava/io/IOExceptionjava/lang/StringBuilder
is not open for readingqiY is not open for
writingzn{ njava/io/FileInputStreamjava/io/InputStreamReaderZjava/io/BufferedReaderZjava/io/FileOutputStreamZjava/io/OutputStreamWriterZjava/io/BufferedWriterZ5 is already open for reading, cannot open for writing5 is
already open for writing, cannot open for
readingz&org/jvnet/licensesetool/file/FileWrapperjava/lang/Objectjava/io/Closeable/org/jvnet/licensesetool/file/FileWrapper$OpenMode0org/jvnet/licensesetool/file/FileWrapper$FileStateCLOSEDexistslastModified()JgetAbsolutePath
OPEN_FOR_READappend-(Ljava/lang/Object;)Ljava/lang/StringBuilder;-
(Ljava/lang/String;)Ljava/lang/StringBuilder;read()I(C)Ljava/lang/StringBuilder;OPEN_FOR_WRITEjava/lang/Stringlength(Ljava/lang/String;II)VnewlineREAD(Ljava/io/InputStream;)V(Ljava/io/Reader;)V(Ljava/io/File;)V(Ljava/io/OutputStream;)V(Ljava/io/Writer;)VWRITE([B)I([BII)VlastIndexOf(I)I
substring(I)Ljava/lang/String;!BCDJKLMNOPQRSTUVWXYZ[/**+*****
]*
KL NOPRS"TV.W^/_`JKZa\E
*Y+
]
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_
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_`eKbcfg\2*]b^`hi\2*]f^`jk\`$**+]o
p"s^$`$Γmn\7 *W]
wx^ _`oi\2*]{^`pi\2*]^`qi\b0*
!YY**]
(^0_`rsi\L*
!YY*YM* Y<
,!W,]
(0=DG^ L_`9tu0vwrxa\=*
"!YY*#*++$%*&]
(5<^=_`=ycrza\v6*
"!YY*#*++$%]
(5^6_`6ycr{n\M*
**(*)"*
***+_*,*
LHK]2

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y+-:*.Y*/0Y*1*2Y*3*
*4Y*5*6Y*7*8Y*9*"
W*
(+-FYY*+;!YY*<]F
>/>EHXgv}^_r/*
]^_`jN:.Y*/N4Y+=:-,>6,?-,>6-)",;--),=RRTR]N%*3:=AEJRX\afi ^>%uj_`j`jhLMeRSri\a!*.@<`*A]

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qrstuv\$dataLjava/util/Map;val\$defaultDatathis\$0+Lorg/jvnet/licensesetool/argparser/ArgParser;<init>L(Lorg/jvnet/licensesetool/argparser/ArgParser;Ljava/util/Map;Ljava/util/Map;)VCodeLineNumberTableLocalVariableTablethisInnerClasses-Lorg/jvnet/licensesetool/argparser/ArgParser\$1;LocalVariableTypeTable-Lorg/jvnet/licensesetool/argparser/ArgParser.1;getValue(Ljava/lang/String;)Ljava/lang/Object;keywordLjava/lang/String;resultLjava/lang/Object;

getString(Ljava/lang/Object;)Ljava/lang/String;elementctrIsbLjava/lang/StringBuilder;objclsLjava/lang/Class;invokeS(Ljava/lang/Object;Ljava/lang/reflect/Method;[Ljava/lang/Object;)Ljava/lang/Object;i\$Ljava/util/Iterator;proxy methodLjava/lang/reflect/Method;args[Ljava/lang/Object;name

SourceFileArgParser.javaEnclosingMethodvwx%&"#\$#yz{|}~java/lang/StringBuilder[, {e]toStringjava/lang/String =2389

+org/jvnet/licensesetool/argparser/ArgParser\$1java/lang/Object#java/lang/reflect/InvocationHandler)org/jvnet/licensesetool/argparser/ArgParser makeProxy2(Ljava/util/Map;Ljava/util/Map;)Ljava/lang/Object;()V

java/util/Mapget(Ljava/lang/Object;)Ljava/lang/Object;getClass()Ljava/lang/Class;java/lang/ClassisArray()Zappend(Ljava/lang/String;)Ljava/lang/StringBuilder;java/lang/reflect/Array

getLength(Ljava/lang/Object;)I(Ljava/lang/Object;)I(Ljava/lang/Object;)()Ljava/lang/String;java/lang/reflect/Method getNameequals(Ljava/lang/Object;);Z

access\$000(Lorg/jvnet/licensesetool/argparser/ArgParser;)Ljava/util/Map;keySet()Ljava/util/Set;

java/util/Setiterator()Ljava/util/Iterator;java/util/IteratorhasNextnext()Ljava/lang/Object;

!"#\$%&'()P*+*,*-*+/,0,123)x*+M,*+M,*lmno+ ,/45670,189)\+M,NY N-

W6+'

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W+:-W-W-+*6

stuvw'x,y3;};EwKRW+>;

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TestInterfaceInnerClassesA

StringPairBPrimaryColorinterfaceClassLjava/lang/Class;

SignatureLjava/lang/Class<TT;>;helpTextLjava/util/Map;5Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;

defaultValues5Ljava/util/Map<Ljava/lang/String;Ljava/lang/Object;>;

parserDataRLjava/util/Map<Ljava/lang/String;Lorg/jvnet/licensetool/argparser/ElementParser;>;LOGGERLjava/uti

l/logging/Logger;<init>(Ljava/lang/Class;)VCodeLineNumberTableLocalVariableTablekeywordLjava/lang/String;e

```

p/Lorg/jvnet/licensesetool/argparser/ElementParser;dv.Lorg/jvnet/licensesetool/argparser/DefaultValue;help&Lorg/jvnet
/licensesetool/argparser/Help;mLjava/lang/reflect/Method;arr${Ljava/lang/reflect/Method;len$li$this+Lorg/jvnet/licen
setool/argparser/ArgParser;clsdefaultValueDataLocalVariableTypeTable0Lorg/jvnet/licensesetool/argparser/ArgParse
r<TT;>;(Ljava/lang/Class<TT;>;)Vdisplay&(Ljava/lang/Object;Ljava/lang/String;elementLjava/lang/Object;ctrlsbL
java/lang/StringBuilder;Ljava/util/Iterator;firstZobjgetHelpText(Ljava/lang/String;str[Ljava/lang/String;defaultVal
uekeysLjava/util/Set;keyListLjava/util/List;#Ljava/util/Set<Ljava/lang/String;>;$Ljava/util/List<Ljava/lang/String;>
;parse'(Ljava/lang/String;)Ljava/lang/Object;argsdatapdataresultTT;(Ljava/lang/String;)TT;error(Ljava/lang/String
;)VmsgcheckMethod.(Ljava/lang/reflect/Method;Ljava/lang/String;
internalParse
(Ljava/util/Map;)Ljava/util/Map;valentryEntryLjava/util/Map$Entry;;Ljava/util/Map$Entry<Ljava/lang/String;Ljav
a/lang/String;>;l(Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;)Ljava/util/Map<Ljava/lang/String;Ljava/la
ng/Object;>;
getKeyword&(Ljava/lang/String;)Ljava/lang/String;argmakeMap$(Ljava/lang/String;)Ljava/util/Map;J(Ljava/lang
/String;)Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;
makeProxy2(Ljava/util/Map;Ljava/util/Map;)Ljava/lang/Object;defaultDataih%Ljava/lang/reflect/InvocationHandle
r;
interfaces[Ljava/lang/Class;[Ljava/lang/Class<*>;o(Ljava/util/Map<Ljava/lang/String;Ljava/lang/Object;>;Ljava/ut
il/Map<Ljava/lang/String;Ljava/lang/Object;>;)TT;main([Ljava/lang/String;)Vap9Lorg/jvnet/licensesetool/argparser/
ArgParser$TestInterface;fLorg/jvnet/licensesetool/argparser/ArgParser<Lorg/jvnet/licensesetool/argparser/ArgParser$T
estInterface;>;
access$000<(Lorg/jvnet/licensesetool/argparser/ArgParser;)Ljava/util/Map;x0<clinit>()V(<T:Ljava/lang/Object;>Ljav
a/lang/Object;
SourceFileArgParser.javasowCDjava/lang/StringBuilderEFG
is not an interfaceHjkjava/util/HashMapnoIJKLMNO-
org/jvnet/licensesetool/argparser/ElementParserPQR,org/jvnet/licensesetool/argparser/DefaultValueSTUMethod ( does
not have a DefaultValue
annotationV$org/jvnet/licensesetool/argparser/HelpqoWXYD[Z[\\]^,Ljava/util/Collection_`abDcd Legal arguments
are:
efjava/util/ArrayListwghijkjava/lang/String]O - <lm
>
(default )

```

uvError in argument parser: nopjava/lang/RuntimeExcepionwqr must not have any parameterssftjava/util/Map\$Entryud

is not a valid keywordvdwxyz!No argument supplied for keyword

+org/jvnet/licensesetool/argparser/ArgParser\$1w{java/lang/Class}~O)org/jvnet/licensesetool/argparser/ArgParser7org/jvnet/licensesetool/argparser/ArgParser\$TestInterfacewxHelp text for this parser:

Result is:

```

Fjava/lang/Object4org/jvnet/licensesetool/argparser/ArgParser$StringPair6org/jvnet/licensesetool/argparser/ArgParser$
PrimaryColorisInterface()ZgetNameappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;toString
getMethods()[Ljava/lang/reflect/Method;factory-
Lorg/jvnet/licensesetool/generic/UnaryFunction;+org/jvnet/licensesetool/generic/UnaryFunctionevaluate&(Ljava/lang/O
bject;)Ljava/lang/Object;
java/util/Mapput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;java/lang/reflect/Method
getAnnotation4(Ljava/lang/Class;)Ljava/lang/annotation/Annotation;valuegetClass(Ljava/lang/Class;isArrayjava/la
ng/reflect/Array
getLength(Ljava/lang/Object;)Iget'(Ljava/lang/Object;I)Ljava/lang/Object;iterator()Ljava/util/Iterator;java/util/Iterat
orhasNextnext(Ljava/lang/Object;keySet()Ljava/util/Set;(Ljava/util/Collection;)Vjava/util/Collectionsort(Ljava/uti

```

/List;)Vjava/util/Listdescribe()[Ljava/lang/String;java/util/logging/LoggerwarninginfogetParameterTypes()[Ljava/lang/Class;entrySet
java/util/SetgetKeygetValuecharAt(I)C
substring(I)Ljava/lang/String;L(Lorg/jvnet/licensesool/argparser/ArgParser;Ljava/util/Map;Ljava/util/Map;)VgetClassLoader()
Ljava/lang/ClassLoader;java/lang/reflect/ProxynewProxyInstance(Ljava/lang/ClassLoader;[Ljava/lang/Class;Ljava/lang/reflect/InvocationHandler;)Ljava/lang/Object;cast(Ljava/lang/SystemoutLjava/io/PrintStream;java/io/PrintStreamprintln-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;!Ycjklnolpqolrsolt
uv
wxy*+*Y+
*+*Y
*Y
Y
M*N-66-2:*:*W: &*Y
, W:

*
Wa**zZ%*5@Hdl{{pl}}{x~}
dPTWkHo
mHply+ JYM,!W>+"%+#:
,\$W,%W,&W, +'[YM,!W>+'(:))*:>
,\$W,%W,&W, +%zf
#*.5?ELQX`gi{\ **?t0`PiGy2YL++W*,M-Y,.N-/-0:)*1:*2:+34W65:6 6

)
2: 6
+6W+W
+7W**28:+9:W*21: +; <W+<W2+ zb"&D T
eh
!{ }q5v0 y-
T~h>}} D|}."
"y*+=M*,N*-*>:z()*+{4oo*prlyz,?Y@+ A?*BCDY+Ez/0#1{,,}.y.+F+*Y+G
z67
9,;{...yEY
M+HIN-)e-*J:K1:*2:*YL
MN:,W,z*
?@(A4BDCIDaEqF{GH{R4H})D8~q(Tkoyo*(Tpyrly{)+O- +P*Y+L
zL
MOP{()})y`Y
MN+:66*2:-
*QN,-WN-*YR-
,z.UV
W#X'YI[;|=WC_G`^a{R#}
61.``Xo
V|}`Xply-SY*+,TNUY*S:**V-WXzj{4--o-o"*--r-rl yJYYZ[L\Y]+B ^+*_ZM\Y`,a ^z'OI{ J?0?y/*z{y%
Yb?zle*ZYd
fYg hYi@J S

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```
1(#&validate()ZRuntimeVisibleAnnotations.Lorg/jvnet/licensetool/argparser/DefaultValue;valuetrue&Lorg/jvnet/licensetool/argparser/Help;fSet to true to validate copyright header; if false, generate/update/insert copyright headers as neededverbosefalseBSet to true to get information about actions taken for every file.dryrun(Set to true to avoid modifying any fileroots)Ljava/util/List; Signature")Ljava/util/List<Ljava/io/File;>;List of directories to processskipdirs(&)Ljava/util/List<Ljava/lang/String;>;.List of directory names that should be skipped copyright*(Lorg/jvnet/licensetool/file/FileWrapper;WFile containing text of copyright header. This must not include any comment characters startyear)Ljava/lang/String;19978Default copyright start year, if not otherwise specified
```

```
SourceFileLicenseTool.java'+org/jvnet/licensetool/LicenseTool$Arguments ArgumentsInnerClassesjava/lang/Object!org/jvnet/licensetool/LicenseTools s
```

```

S S
s s ss ss sss s !%
"$
/*
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* and therefore, elected the GPL Version 2 license, then the option applies
* only if the new code is made subject to such option by the copyright
* holder.
*/
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B
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EY[this\$0_ShellLikeFileParserInnerClasses=Lorg/jvnet/licensetool/FileParserFactory\$ShellLikeFileParser;<init>h(Lorg/jvnet/licensetool/FileParserFactory\$ShellLikeFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VCodeLineNumberTableLocalVariableTablethis?Lorg/jvnet/licensetool/FileParserFactory\$ShellLikeFileParser\$1;x0(Lorg/jvnet/licensetool/file/FileWrapper;

Exceptions`insertCommentBlock(Ljava/lang/String;)VsplitBlocks\$Lorg/jvnet/licensetool/generic/Pair;sheBangBlock"Lorg/jvnet/licensetool/file/Block; restBlock

firstBlockLineCommentBlock8Lorg/jvnet/licensetool/LineCommentFile\$LineCommentBlock;commentTextLjava/lang/String;cb)Lorg/jvnet/licensetool/file/CommentBlock;fBlockLocalVariableTypeTableLorg/jvnet/licensetool/generic/Pair<Lorg/jvnet/licensetool/LineCommentFile\$LineCommentBlock;Lorg/jvnet/licensetool/LineCommentFile\$LineCommentBlock;>; postParse()V

SourceFileFileParserFactory.javaEnclosingMethodabcdeTopCommentBlockf+ghijk

org/jvnet/licensetool/file/Block'org/jvnet/licensetool/file/CommentBlockl6org/jvnet/licensetool/LineCommentFile\$LineCommentBlockmn#!opqrstuvwxyz{ | } ~ = org/jvnet/licensetool/FileParserFactory\$ShellLikeFileParser\$1Qorg/jvnet/licensetool/LineCommentFile\$LineCommentFileParser\$LineCommentParsedFileLineCommentFileParserLineCommentParsedFile;org/jvnet/licensetool/FileParserFactory\$ShellLikeFileParserjava/io/IOException

parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;h(Lorg/jvnet/licensetool/LineCommentFile\$LineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VcreateCommentBlock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;addTag

fileBlocksLjava/util/List;java/util/Listget(I)Ljava/lang/Object;%org/jvnet/licensetool/LineCommentFilecontents()Ljava/lang/String;java/lang/String

startsWith(Ljava/lang/String;)Z

splitFirst&()Lorg/jvnet/licensetool/generic/Pair;"org/jvnet/licensetool/generic/Pairfirst()Ljava/lang/Object;secondremove(Ljava/lang/Object;)Zadd(ILjava/lang/Object;)Vtrimsize(I;org/jvnet/licensetool/LineCommentFile\$LineCommentFileParser'org/jvnet/licensetool/FileParserFactory

@*+*+,!X"#%&'()*+ a*+M,*N- q-

:

P:::*W**,**,*;!J?@AB!C'D4F;HEIOJ[KgLrM~NORSU"R;C,-E9./O/0/'e13#%45678/9;C,;:< p* b*

5*:* ***!Y[+]H^Z_]aod"p#%=>?@*^

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JK

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```
Z[ ]^MultiLineCommentFileParserInnerClassesMultiLineCommentBlockLOGGERLjava/util/logging/Logger;<init>
()VCodeLineNumberTableLocalVariableTablethis,Lorg/jvnet/licensetool/MultiLineCommentFile;parseBlocksp(Lor
g/jvnet/licensetool/file/FileWrapper;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Ljava/util/List;plainStrin
gLjava/lang/String;
commentString
commentEndIffileContentscommentStartcurrentIndexparsedBlocksLjava/util/List;fw(Lorg/jvnet/licensetool/file/FileWra
pper;startendprefixLocalVariableTypeTable4Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;
Exceptions_
Signature(Lorg/jvnet/licensetool/file/FileWrapper;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Ljava/util/
List<Lorg/jvnet/licensetool/file/Block;>;
access$100()Ljava/util/logging/Logger;<clinit>
SourceFileMultiLineCommentFile.java
`bcdefghjava/util/ArrayListijklm%org/jvnet/licensetool/file/PlainBlocknopqrs@org/jvnet/licensetool/MultiLineCom
mentFile$MultiLineCommentBlockjava/util/HashSetl
%org/jvnet/licensetool/LineCommentFilewxhyz{*org/jvnet/licensetool/MultiLineCommentFilejava/lang/ObjectEor
g/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParserjava/io/IOException/org/jvnet/licensetool/
file/FileWrapper$OpenModeOpenModeREAD1Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;&org/jvnet/lice
nsetool/file/FileWrapperopen4(Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;)VreadAsString()Ljava/lang/Stri
ng;java/lang/StringindexOf(Ljava/lang/String;I)
substring(II)Ljava/lang/String;(Ljava/lang/String;)Vjava/util/Listadd(Ljava/lang/Object;)Zlength()IZ(Ljava/lang/Stri
ng;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/util/Set;)V(I)Ljava/lang/String;closejava/lang/Class
getNamejava/util/logging/Logger getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;! !3*"
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'()*this\$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementParserImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses6Lorg/jvnet/licensetool/argparser/ElementParserImpl\$12;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/Object;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod+,-
./01java/lang/String4org/jvnet/licensetool/argparser/ElementParserImpl\$12java/lang/Object+org/jvnet/licensetool/generic/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImpl\$getPrimitiveParser@(Ljava/lang/Class;)Lorg/jvnet/licensetool/generic/UnaryFunction;()Vjava/lang/DoublevalueOf&(Ljava/lang/String;)Ljava/lang/Double;

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STUtagsLjava/util/Set;
Signature#Ljava/util/Set<Ljava/lang/String;>;<init>(Ljava/util/Set;)VCodeLineNumberTableLocalVariableTablethis" Lorg/jvnet/licensetool/file/Block;LocalVariableTypeTable&(Ljava/util/Set<Ljava/lang/String;>;)V()VtoString(Ljava/lang/String;tagLjava/lang/String;i\$Ljava/util/Iterator;sbLjava/lang/StringBuilder;firstZaddTag(Ljava/lang/String;)VhasTag(Ljava/lang/String;)ZhasTags([Ljava/lang/String;)Zarr\$[Ljava/lang/String;len\$Iwrite+(Lorg/jvnet/licensetool/file/FileWrapper;)V
ExceptionsV
SourceFile
Block.java\$java/util/HashSetjava/lang/StringBuilderWXYZ&[[]^_`abcdjava/lang/String]%&efgf12
org/jvnet/licensetool/file/Blockjava/lang/Objectjava/io/IOExceptiongetClass()Ljava/lang/Class;java/lang/ClassgetNa
meappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;
java/util/Setiterator(Ljava/util/Iterator;java/util/IteratorhasNext()Znext(Ljava/lang/Object;add(Ljava/lang/Object;)Zcontains!X
**+34 5
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#\$B**Y789 !%&_YL+*
W=*N(-
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commentStart$Lorg/jvnet/licensetool/generic/Pair;  
SignatureJLorg/jvnet/licensetool/generic/Pair<Ljava/lang/String;Ljava/lang/String;>;commentLinesLjava/util/List;\  
Ljava/util/List<Lorg/jvnet/licensetool/generic/Pair<Ljava/lang/String;Ljava/lang/String;>;>;  
commentEndprefixLjava/lang/String;startend<init>Z(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/la  
ng/String;Ljava/util/Set;)VCodeLineNumberTableLocalVariableTablethisMultiLineCommentBlockInnerClassesBL  
org/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentBlock;multiLineCommenttagsLjava/util/Set;Local  
VariableTypeTable#Ljava/util/Set<Ljava/lang/String;>;n(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Lja  
va/lang/String;Ljava/util/Set<Ljava/lang/String;>;)VX(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Lja  
va/lang/String;Ljava/util/Set<Ljava/lang/String;>;)V(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Lja  
va/lang/String;Ljava/util/List<Ljava/lang/String;>;(Ljava/lang/String;Ljava/lang/String;Ljava/lang/Strin  
g;Ljava/util/List<Ljava/lang/String;>;Ljava/util/Set<Ljava/lang/String;>;)VcreateCommentBlock(Ljava/lang/String;  
Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;  
stri$Ljava/util/Iterator;commentTextline_separatorcommentTextBlockdataAsLinesreplace6(Ljava/lang/String;)Lorg  
/jvnet/licensetool/file/Block;content  
parsedDatacontents()Ljava/lang/String;linesbLjava/lang/StringBuilder;commentparse(Ljava/util/List;)VstartComme  
ntSuffixstartCommentPrefixrestendindexIindexidata'(Ljava/util/List<Ljava/lang/String;>;)V(Ljava/lang/String;)V  
SourceFileMultiLineCommentFile.java;0java/util/ArrayList;346098:878`k`ajava/lang/Stringjava/lang/StringBuilder  
[@org/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentBlockjava/util/HashSet;J"org/jvnet/licensetool/  
generic/Pair;[java/lang/RuntimeException-Comment  
block does n't contain start marker ;k*Comment block does n't contain end marker  
'org/jvnet/licensetool/file/CommentBlock(Ljava/util/Set;)V()V#org/jvnet/licensetool/util/ToolUtilsplitToLines$(Lja  
va/lang/String;)Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/  
Object;append-  
(Ljava/lang/String;)Ljava/lang/StringBuilder;convertLineBreak8(Ljava/lang/String;Ljava/lang/String;)Ljava/lang/Stri  
ng;toStringadd(Ljava/lang/Object;)Z(ILjava/lang/Object;)Vsize()I*org/jvnet/licensetool/MultiLineCommentFilefirst  
(Ljava/lang/Object;Ljava/lang/Object;)Vclearsecondtrimequalsget(I)Ljava/lang/Object;indexOf(Ljava/lang/String;)I  
length substring(II)Ljava/lang/String;(I)Ljava/lang/String;!./012341560127898:8;<=1***Y***+*;*_*  
>& ?678@
```

A%B*COD?>1@C1981:81781D81EFG1EH1I;J=1***Y**+*,*- *>& G678H
I%J*KOL?>1@C1981:81781D41EFG1DK1EH1L MN=A Y:-
:2:Y,WY*+Y*+,Y>"P QR.SNTQUIV{ W? \ . O89PQ98:878R8S8 T4U4G TKUKVW=m*Y* *!+M,
N(-:*Y* W*Y*" *>"[\]^=_T`Wakb?4=O8).PQm@CmX8"KY4G"KYKZ[=YL+*W+*"W*
M,(N+-W+-"W+*W+*"W+>*
fgh&iCjOk[l^mmn|o?*C\00.PQ@Cy]^GC\2_[=YL*"#\$+*"W*
M,,N+-"W*#\$+*W+>& stu,vIwUxXymz|{ ?*I\06"PQ@Cy]^GI\2`a=u _+=U+%N-*&6!YY(*)-**`+:-
**`.*&6\$+:*Y,
:*Y +dK-*&6!YY-*)*Y+--, W-* &6*Y- W1*Y-* *`+-* *`,
W>r%*HYity*X^?zb8YTc8b8iDd8t9ef%gf;gfJgfAO8(hf_@C_i4G_iK1j`k=c+M*,>
? @Ci8U4GUKImB

A

lvalue()Ljava/lang/String;AnnotationDefault

SourceFileSeparator.javaRuntimeVisibleAnnotations!Ljava/lang/annotation/Documented;Ljava/lang/annotation/Target;"Ljava/lang/annotation/ElementType;METHOD

Ljava/lang/annotation/Retention;&Ljava/lang/annotation/RetentionPolicy;RUNTIME)org/jvnet/licensetool/argparser/Separatorjava/lang/Objectjava/lang/annotation/Annotation&s

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"qrrthis\$0wInnerClasses+Lorg/jvnet/licensetool/FileParserFactory\$2;<init>V(Lorg/jvnet/licensetool/FileParserFactory\$2;Lorg/jvnet/licensetool/file/FileWrapper;)VCodeLineNumberTableLocalVariableTablethis-

Lorg/jvnet/licensetool/FileParserFactory\$2\$1;x0(Lorg/jvnet/licensetool/file/FileWrapper;

ExceptionsxinsertCommentBlock(Ljava/lang/String;)VsplitBlocks\$Lorg/jvnet/licensetool/generic/Pair;xmlDeclaration" Lorg/jvnet/licensetool/file/Block; restOfXml

plainBlock'Lorg/jvnet/licensetool/file/PlainBlock;linesLjava/util/List;

firstLineLjava/lang/String;commentTextcb)Lorg/jvnet/licensetool/file/CommentBlock;

firstBlockLocalVariableTypeTablejLorg/jvnet/licensetool/generic/Pair<Lorg/jvnet/licensetool/file/Block;Lorg/jvnet/licensetool/file/Block;>;\$Ljava/util/List<Ljava/lang/String;>; postParse()ViContentb

SourceFileFileParserFactory.javaEnclosingMethodyz#{ }TopCommentBlock~4=

org/jvnet/licensetool/file/Block'org/jvnet/licensetool/file/CommentBlock%org/jvnet/licensetool/file/PlainBlockjava/lang/String<?xml?>java/lang/RuntimeExceptionNeeds

```

special
handling(4GH+org/jvnet/licensetool/FileParserFactory$2$1\org/jvnet/licensetool/MultiLineCommentFile$MultiLine
eCommentFileParser$BlockCommentParsedFileMultiLineCommentFileParserBlockCommentParsedFile)org/jvnet/l
icensetool/FileParserFactory$2java/io/IOException
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;r(Lorg/jvnet/licensetool/
MultiLineCommentFile$MultiLineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VcreateCommentBl
ock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;addTag
fileBlocksjava/util/Listget(I)Ljava/lang/Object;add(ILjava/lang/Object;)VadjustBlockAtIndex(I)Vcontents(Ljava/la
ng/String;#org/jvnet/licensetool/util/ToolUtilsplitToLines$(Ljava/lang/String;)Ljava/util/List;trim
startsWith(Ljava/lang/String;)ZendsWith
splitFirst&()Lorg/jvnet/licensetool/generic/Pair;"org/jvnet/licensetool/generic/Pairfirst()Ljava/lang/Object;secondre
move(Ljava/lang/Object;)Zsize()IequalsEorg/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFilePars
er*org/jvnet/licensetool/MultiLineCommentFile
!"#()*@*+*+*,+,-./01234*
*+M,*N- *,
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Y:: *W *
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*+j!,14:DQ^ku|f
|M56C78998 ::D<=Q>?-.@?ABC8D|M5ED<FGH*L*L+ +++
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,4` (IJ0sK=,h>?-.L8D0sKFMNO$P&"$!su "sv
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789:COMMENT_BLOCK_TAGLjava/lang/String;
ConstantValueTOP_COMMENT_BLOCK;<init>(Ljava/util/Set;)VCodeLineNumberTableLocalVariableTablethis)
Lorg/jvnet/licensetool/file/CommentBlock;tagsLjava/util/Set;LocalVariableTypeTable#Ljava/util/Set<Ljava/lang/St
ring;>;
Signature&(Ljava/util/Set<Ljava/lang/String;>;)V()Vreplace6(Ljava/lang/String;)Lorg/jvnet/licensetool/file/Block;c
ontents(Ljava/lang/String;write+(Lorg/jvnet/licensetool/file/FileWrapper;)Vfw(Lorg/jvnet/licensetool/file/FileWrap
per;
Exceptions<commentfind&(Ljava/lang/String;)Ljava/lang/String;search
SourceFileCommentBlock.javaCommentBlock=>? !@"ABCD'org/jvnet/licensetool/file/CommentBlock
org/jvnet/licensetool/file/BlockTopCommentBlockjava/io/IOException
java/util/Setadd(Ljava/lang/Object;)Z&org/jvnet/licensetool/file/FileWrapper(Ljava/lang/String;)Vjava/lang/Stringc
ontains(Ljava/lang/CharSequence;)Z!

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#
$%&
()*this$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementPar
serImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses6Lorg/jvnet/licensetool/argparser/ElementPar
serImpl$10;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/
Object;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod+,-
./01java/lang/String4org/jvnet/licensetool/argparser/ElementParserImpl$10java/lang/Object+org/jvnet/licensetool/ge
neric/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lor
g/jvnet/licensetool/generic/UnaryFunction;()Vjava/lang/LongvalueOf$(Ljava/lang/String;)Ljava/lang/Long;

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YZ(this$0_InnerClasses+Lorg/jvnet/licensetool/FileParserFactory$1;<init>V(Lorg/jvnet/licensetool/FileParserFacto
ry$1;Lorg/jvnet/licensetool/file/FileWrapper;)VCodeLineNumberTableLocalVariableTablethis-
Lorg/jvnet/licensetool/FileParserFactory$1$1;x0(Lorg/jvnet/licensetool/file/FileWrapper;
Exceptions`createCommentBlock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;strLjava/lang/Stri
ng;i$Ljava/util/Iterator;commentTextcommentTextBlockLjava/util/List;dataAsLinesLocalVariableTypeTable$Ljava
/util/List<Ljava/lang/String;>;
SourceFileFileParserFactory.javaEnclosingMethodab!"cjava/util/ArrayList"defghijklmnojava/lang/Stringjava/lang/S
tringBuilderp0qrs0tuvwxyz0x{}
~0@org/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentBlockMultiLineCommentBlockjava/util/Has
hSet"+org/jvnet/licensetool/FileParserFactory$1$1\org/jvnet/licensetool/MultiLineCommentFile$MultiLineComme
ntFileParser$BlockCommentParsedFileMultiLineCommentFileParserBlockCommentParsedFile)org/jvnet/licensetoo
l/FileParserFactory$1java/io/IOException
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;r(Lorg/jvnet/licensetool/
MultiLineCommentFile$MultiLineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)V()V#org/jvnet/lic
ensetool/util/ToolUtil$splitToLines$(Ljava/lang/String;)Ljava/util/List;java/util/Listiterator()Ljava/util/Iter
ator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;prefixappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;line_separatorcovertLineBreak8(Ljava/lang/String;Ljava/lang/String;)
Ljava/lang/String;toString()Ljava/lang/String;add(Ljava/lang/Object;)Zstart(ILjava/lang/Object;)Vsize()Iend*org/jv

```

```

net/licensetool/MultiLineCommentFileX(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/util/List;Ljav
a/util/Set;)VEorg/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParser
!"#$%&*+*,%&'()*+,-.$UYM+N-:9 :,
Y*
*
W,
Y*
*
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Y
*
Y***,Y%"
+RUw&>+'0@12'(3045
65748
689:;<
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RST
val$fconsLjava/lang/reflect/Constructor;val$typeLjava/lang/Class;this$03Lorg/jvnet/licensetool/argparser/ElementP
arserImpl;<init>f(Lorg/jvnet/licensetool/argparser/ElementParserImpl;Ljava/lang/reflect/Constructor;Ljava/lang/Cla
ss;)VCodeLineNumberTableLocalVariableTablethisInnerClasses6Lorg/jvnet/licensetool/argparser/ElementParserIm
pl$13;evaluate&(Ljava/lang/String;)Ljava/lang/Object;e1-
Ljava/lang/reflect/InvocationTargetException;e2Ljava/lang/Exception;strLjava/lang/String;&(Ljava/lang/Object);Lj
ava/lang/Object;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethodUVW
Xjava/lang/ObjectYZ[+java/lang/reflect/InvocationTargetExceptionjava/lang/RuntimeExceptionjava/lang/StringBui
lder\]^_`&(String) constructor threw exception: ab_cd^ ejava/lang/Exception
Exception occurred in calling constructor
(String)java/lang/String)*4org/jvnet/licensetool/argparser/ElementParserImpl$13+org/jvnet/licensetool/generic/Una
ryFunction1org/jvnet/licensetool/argparser/ElementParserImplmakeClassConverter@(Ljava/lang/Class;)Lorg/jvnet/
licensetool/generic/UnaryFunction;()Vjava/lang/reflect/ConstructornewInstance'(Ljava/lang/Object;)Ljava/lang/Obj
ect;java/lang/ClassgetName()Ljava/lang/String;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;getTargetException()Ljava/lang/Throwable;-
(Ljava/lang/Object);Ljava/lang/StringBuilder;toString(Ljava/lang/String;)V
!">*+*,*-*#$(*)**Y+SMY Y
*
,MY Y
,*9#9:$*(+,:/-i%(i/0A)1"= *+##$ %( 23456789:'

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l"
this\$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>v(Lorg/jvnet/licensetool/argparser/ElementParserImpl;Lorg/jvnet/licensetool/generic/UnaryFunction;[Ljava/lang/String;VCodeLineNumberTableLocalVariableTable
this
ResultDataInnerClasses>Lorg/jvnet/licensetool/argparser/ElementParserImpl\$ResultData;func-
Lorg/jvnet/licensetool/generic/UnaryFunction;desc[Ljava/lang/String;LocalVariableTypeTableSLorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
Signaturei(Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;[Ljava/lang/String;)
VLorg/jvnet/licensetool/generic/Pair<Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;[Ljava/lang/String;>;
SourceFileElementParserImpl.java
!<org/jvnet/licensetool/argparser/ElementParserImpl\$ResultData"org/jvnet/licensetool/generic/Pair'(Ljava/lang/Object;Ljava/lang/Object;V1org/jvnet/licensetool/argparser/ElementParserImpl d*+*, -
ABC

l
evaluate8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
Signature(TS;TT;)TR;P<S:Ljava/lang/Object;T:Ljava/lang/Object;R:Ljava/lang/Object;>Ljava/lang/Object;
SourceFileBinaryFunction.java,org/jvnet/licensetool/generic/BinaryFunctionjava/lang/Object

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qrstLineCommentFileParserInnerClassesLineCommentBlockLOGGERLjava/util/logging/Logger;<init>()VCodeLineNumberTableLocalVariableTablethis'Lorg/jvnet/licensetool/LineCommentFile;parseBlocksM(Lorg/jvnet/licensetool/file/FileWrapper;[Ljava/lang/String;Ljava/util/List;lineLjava/lang/String;i\$Ljava/util/Iterator;fileAsLinesLjava/util/List;fw(Lorg/jvnet/licensetool/file/FileWrapper;prefixes[Ljava/lang/String;inCommentZresultsbLjava/lang/StringBuilder;LocalVariableTypeTable\$Ljava/util/List<Ljava/lang/String;>;4Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;

Exceptionsu

Signatureq(Lorg/jvnet/licensetool/file/FileWrapper;[Ljava/lang/String;)Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;

startsWith((Ljava/lang/String;[Ljava/lang/String;)Zprefixarr\$len\$Istr

access\$000()Ljava/util/logging/Logger;<clinit>

SourceFileLineCommentFile.java%&'java/util/ArrayListjava/lang/StringBuildervxyz{}~java/lang/StringEF6org/jv

```

net/licensetool/LineCommentFile$LineCommentBlock~java/util/HashSet&%org/jvnet/licensetool/file/PlainBlock&'
E%org/jvnet/licensetool/LineCommentFile~java/lang/Object;org/jvnet/licensetool/LineCommentFile$LineCommen
tFileParserjava/io/IOException/org/jvnet/licensetool/file/FileWrapper$OpenModeOpenModeREAD1Lorg/jvnet/lice
nsetool/file/FileWrapper$OpenMode;&org/jvnet/licensetool/file/FileWrapperopen4(Lorg/jvnet/licensetool/file/File
Wrapper$OpenMode;)VreadAsString()Ljava/lang/String;#org/jvnet/licensetool/util/ToolUtil$splitToLines$(Ljava/lan
g/String;)Ljava/util/List;java/util/Listiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object
;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString6(Ljava/lang/String;Ljava/lang/String;Ljava/util/Set;)Vadd(Lja
va/lang/Object;Zlength()I(Ljava/lang/String;)Vclose(Ljava/lang/String;)Zjava/lang/ClassgetNamejava/util/logging/
Logger getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;!$%&'(3*)
4*+,-.(@ $=YNY:**
::
:J+Wx-Y+2YWY:=WE+4-YW=Y:WW];#-Y+2YW-YW-:.*:*)!
#BFOZW
!#%&'()+-023468;:;!;*RB/0,12#34$56$78"9:
;4<=>#3?
;@ ABCD
EF(+M,>6,2:*)?@A?%C*>G0#H8 IJ1J'K0'78LM()4N'(%
)FOP" ! # UWw@
1
evaluate(Ljava/lang/Object;)Z Signature(TT);Z(<T:Ljava/lang/Object;>Ljava/lang/Object;
SourceFileUnaryBooleanFunction.java2org/jvnet/licensetool/generic/UnaryBooleanFunctionjava/lang/Object
12 "
#
$%&
')*this$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementPar
serImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses6Lorg/jvnet/licensetool/argparser/ElementPar
serImpl$11;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/
Object;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod+,-
./01java/lang/String4org/jvnet/licensetool/argparser/ElementParserImpl$11java/lang/Object+org/jvnet/licensetool/ge
neric/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lor
g/jvnet/licensetool/generic/UnaryFunction;()Vjava/lang/FloatvalueOf%(Ljava/lang/String;)Ljava/lang/Float;

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IJKLBinaryFileParserInnerClassesMShellLikeFileParserLOGGERLorg/jvnet/logging/Logger;<init>()VCodeLineNu
mberTableLocalVariableTablethis)Lorg/jvnet/licensetool/FileParserFactory;createJavaFileParser()(Lorg/jvnet/licens

```

```

etool/file/FileParser;JAVA_COMMENT_STARTLjava/lang/String;JAVA_COMMENT_PREFIXJAVA_COMME
NT_ENDcreateJSPFileParserJSP_COMMENT_STARTJSP_COMMENT_PREFIXJSP_COMMENT_ENDcreateX
MLFileParserXML_COMMENT_STARTXML_COMMENT_PREFIXXML_COMMENT_END
access$000()Ljava/util/logging/Logger;<clinit>
SourceFileFileParserFactory.java/* **/)org/jvnet/licensetool/FileParserFactory$1N<%----
%>OEorg/jvnet/licensetool/MultiLineCommentFile$MultiLineCommentFileParserMultiLineCommentFileParser<!--
---
>)org/jvnet/licensetool/FileParserFactory$2'org/jvnet/licensetool/FileParserFactoryPQRSTUjava/lang/Object8org/jv
net/licensetool/FileParserFactory$BinaryFileParser;org/jvnet/licensetool/FileParserFactory$ShellLikeFileParser9(Lj
ava/lang/String;Ljava/lang/String;Ljava/lang/String;)V*org/jvnet/licensetool/MultiLineCommentFilejava/lang/Class
getName()Ljava/lang/String;java/util/logging/Logger getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;!
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!"#$%&'()*+,-./:;<=>?@A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ ` { | } ~ ` `
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*&+&,&-$%
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!COPYRIGHT_BLOCK_TAGLjava/lang/String;
ConstantValue"SUN_COPYRIGHT_TAG#CORRECT_COPYRIGHT_TAG$JAVA_FORMAT_TAG%JAVA_LI
NE_FORMAT_TAG&XML_FORMAT_TAG'SCHEME_FORMAT_TAG(SHELL_FORMAT_TAG)<init>()VCod
eLineNumberTableLocalVariableTablethisLorg/jvnet/licensetool/Tags;
SourceFile Tags.javaorg/jvnet/licensetool/Tagsjava/lang/ObjectCopyrightBlockSunCopyrightCorrectCopyright
JavaFormatJavaLineFormat XmlFormatSchemeFormatShellFormat!

/**
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::<=this$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementPa
rserImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses5Lorg/jvnet/licensetool/argparser/ElementPa
rserImpl$7;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/O
bject;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod>?@ABCjava/lang/RuntimeExceptionjava/lang/StringBuilderSt
ring "DE$" cannot be converted to a
CharacterFGHIJKLMjava/lang/String3org/jvnet/licensetool/argparser/ElementParserImpl$7java/lang/Object+org/jv
net/licensetool/generic/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljav
a/lang/Class;)Lorg/jvnet/licensetool/generic/UnaryFunction;()Vlength()Iappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;(Ljava/lang/String;)VcharAt(I)Cjava/lang/

```


Character.valueOf(C)Ljava/lang/Character;

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ActionInnerClassesrootsLjava/util/List; Signature

Ljava/util/List<Ljava/io/File;>;dryrunZpatternsToSkip\$Ljava/util/List<Ljava/lang/String;>;LOGGERLjava/util/log
ging/Logger;<init>(ZLjava/util/List;)VCodeLineNumberTableLocalVariableTablethisLorg/jvnet/licensetool/Scanne
r;filesLocalVariableTypeTable\$(ZLjava/util/List<Ljava/io/File;>);V(ZZ[Ljava/io/File;])Vverbose[Ljava/io/File;add
DirectoryToSkip(Ljava/lang/String;)VpatternLjava/lang/String;scanT(Lorg/jvnet/licensetool/file/FileRecognizer;Lor
g/jvnet/licensetool/Scanner\$Action;)ZfileLjava/io/File;i\$Ljava/util/Iterator;
recognizer+Lorg/jvnet/licensetool/file/FileRecognizer;action&Lorg/jvnet/licensetool/Scanner\$Action;resultdoScanb
(Ljava/io/File;Lorg/jvnet/licensetool/file/FileRecognizer;Lorg/jvnet/licensetool/Scanner\$Action;)Zfarr\$len\$IpfilerLo
rg/jvnet/licensetool/file/ParsedFile;parser'Lorg/jvnet/licensetool/file/FileParser;exclJava/io/IOException;Ljava/lang/
Exception;fw(Lorg/jvnet/licensetool/file/FileWrapper;
skipDirectory(Ljava/io/File;)ZabsPathmatch'(Ljava/lang/String;Ljava/lang/String;)Ztokenfname
separatorstLjava/util/StringTokenizer;<clinit>()V
SourceFileScanner.javaG }=>ABjava/util/ArrayListC>GHjava/io/Filecdrs&org/jvnet/licensetool/file/FileWrapperG
EFjava/lang/StringBuilderUnrecognized

```

file: U}java/io/IOException Exception while processing file : }java/lang/Exceptionjava/lang/StringuvScanner:
Skipping directory (pattern )U Scanner: Not skipping directory yWjava/util/StringTokenizerGfname matched on
pattern
org/jvnet/licensetool/Scannerjava/lang/Object$org/jvnet/licensetool/Scanner$Actionjava/util/ArraysasList%([Ljava/l
ang/Object;)Ljava/util/List;java/util/Listadd(Ljava/lang/Object;)Ziterator()Ljava/util/Iterator;java/util/IteratorhasNex
t()Znext()Ljava/lang/Object;isDirectory
listFiles()[Ljava/io/File;(Ljava/io/File;)V)org/jvnet/licensetool/file/FileRecognizer
getParserQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/FileParser;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;java/util/logging/Loggerwarningclose%or
g/jvnet/licensetool/file/FileParser
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;evaluateprintStackTraceg
etAbsolutePathfine'(Ljava/lang/String;Ljava/lang/String;)V
hasMoreTokens nextTokenequalsjava/lang/ClassgetName
getLogger.(Ljava/lang/String;)Ljava/util/logging/Logger;!69=>?@ABC>?D
EFGHlz**,**YJ=> ?@AK
LMABN>ON@?PGQIV
*-J
D EK*
LM
RB
AB
NSTUID*+ WJ
MNKLMVWXYI8>*
:"
:*+,>J_`#a,b0c3d6eK>#Z[
)\]8LM8^_8`a6bBcdI
'6+B*++:66"2:*,-6 Y+,:.(Y6*:
-6y:Y!"#6:Y!"%6: S $$$SJ%ij
kl.m8n=o@lFqIsSu]vbw|xz{}}
!$K.e[.fS)gh &[hij]Ik14mn4moSpq'LM'Z['^_`a$bBrsIu*
M,J,&N+!:*(-Y)*-+,Y-+,J"#-UWZsK4#4tW:VW
P\]uLMuZ[uvIP.N/Y,-0:1:2:+3'Y4,5+,J& 'IKNK>-wWPLMPVWPxWLyWAZ{||}I%
678J~<
:6;
1
<init>()VCodeLineNumberTableLocalVariableTablethisFileContentRecognizerInnerClasses?Lorg/jvnet/licensetool/
RecognizerFactory$FileContentRecognizer;
getParserQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/FileParser;file(Lorg/jvnet/licensetool
/file/FileWrapper;
SourceFileRecognizerFactory.java=org/jvnet/licensetool/RecognizerFactory$FileContentRecognizerjava/lang/Objec
t)org/jvnet/licensetool/file/FileRecognizer'org/jvnet/licensetool/RecognizerFactory!/*
6
1+

```

```

!#<init>9(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethisInnerClasses+Lorg/jvnet/licensesetool/FileParserFactory$1;x0Ljava/lang/String;x1x2
Exceptions%
parseFileQ(Lorg/jvnet/licensesetool/file/FileWrapper;)Lorg/jvnet/licensesetool/file/ParsedFile;file(Lorg/jvnet/licensesetool/file/FileWrapper;
SourceFileFileParserFactory.javaEnclosingMethod&'(+org/jvnet/licensesetool/FileParserFactory$1$1))org/jvnet/licensesetool/FileParserFactory$1*Eorg/jvnet/licensesetool/MultiLineCommentFile$MultiLineCommentFileParserMultiLineCommentFileParserjava/io/IOException'org/jvnet/licensesetool/FileParserFactorycreateJavaFileParser()(Lorg/jvnet/licensesetool/file/FileParser;V(Lorg/jvnet/licensesetool/FileParserFactory$1;Lorg/jvnet/licensesetool/file/FileWrapper;)V*org/jvnet/licensesetool/MultiLineCommentFile P*+,-
*>
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UVWXYZ[\]^
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```

```

"klmoval$copyrightBlock'Lorg/jvnet/licensesetool/file/PlainBlock;this$0%Lorg/jvnet/licensesetool/ActionFactory;<init>O(Lorg/jvnet/licensesetool/ActionFactory;Lorg/jvnet/licensesetool/file/PlainBlock;)VCodeLineNumberTableLocalVariableTablethisInnerClasses'Lorg/jvnet/licensesetool/ActionFactory$3;toString(Ljava/lang/String;evaluate*(Lorg/jvnet/licensesetool/file/ParsedFile;)Zblock)Lorg/jvnet/licensesetool/file/CommentBlock;iLjava/util/Iterator;pfile'Lorg/jvnet/licensesetool/file/ParsedFile;hadAnOldSunCopyrightZcountSunCopyrightI(Ljava/lang/Object;)Zx0Ljava/lang/Object;SourceFileActionFactory.javaEnclosingMethodqrs'(%&)tjava/lang/StringBuilder#CopyrightBlockAction[copyrightText=uvw]23xyNo Sun Copyright header in
z3{[]~'org/jvnet/licensesetool/file/CommentBlockjava/lang/StringSunCopyrightCopyrightBlock!More than one Sun Copyright BlockTopCommentBlock33(First block has incorrect copyright text2Sun Copyright Block is not the first comment
block%org/jvnet/licensesetool/file/ParsedFile45%org/jvnet/licensesetool/ActionFactory$3java/lang/Object$org/jvnet/licensesetool/Scanner$ActionAction#org/jvnet/licensesetool/ActionFactorygetValidateCopyrightActionO(Lorg/jvnet/licensesetool/file/PlainBlock;)Lorg/jvnet/licensesetool/Scanner$Action;()Vappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;-(Ljava/lang/Object;)Ljava/lang/StringBuilder;
access$100O(Lorg/jvnet/licensesetool/ActionFactory;Lorg/jvnet/licensesetool/file/ParsedFile;)ZgetPath
access$200n(Lorg/jvnet/licensesetool/ActionFactory;Lorg/jvnet/licensesetool/file/Block;Ljava/lang/String;Ljava/lang/String;VgetComments()Ljava/util/List;java/util/Listiterator(Ljava/util/Iterator;java/util/IteratorhasNext()Znext(Ljav

```

```
a/lang/Object;hasTags([Ljava/lang/String;)ZhasTag(Ljava/lang/String;)Z%org/jvnet/licensetool/file/PlainBlockcont
entscomment#org/jvnet/licensetool/util/ToolUtilareCommentsEqual(Ljava/lang/String;Ljava/lang/String;)Zorg/jvne
t/licensetool/Scanner
"#$$%&'()*+9*+*,*^-.123+FY*
,Z-.145+L*+*=*+
>+::YSYSZ*+
*$*+
*+
},F` a
bef>gThWi\jkknmxnpqsvw->>m67(89.1;; <=>?A4@+= *+
!,^-.1 ABCDEFG0"$np
#Generated by Maven
#Tue Apr 08 18:47:11 PDT 2008
version=1.0-SNAPSHOT
groupId=org.jvnet.licensetool
artifactId=license-tool
1value(Ljava/lang/String;AnnotationDefault
SourceFile
Help.javaRuntimeVisibleAnnotations!Ljava/lang/annotation/Documented;Ljava/lang/annotation/Target;"Ljava/lang/
annotation/ElementType;METHOD
Ljava/lang/annotation/Retention;&Ljava/lang/annotation/RetentionPolicy;RUNTIME$org/jvnet/licensetool/argparse
r/Helpjava/lang/Objectjava/lang/annotation/Annotation&s
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```

fileBlocksLjava/util/List;
Signature4Ljava/util/List<Lorg/jvnet/licensetool/file/Block;>;line_separatorLjava/lang/String;this$0LineCommentFileParserInnerClasses=Lorg/jvnet/licensetool/LineCommentFile$LineCommentFileParser;<init>h(Lorg/jvnet/licensetool/LineCommentFile$LineCommentFileParser;Lorg/jvnet/licensetool/file/FileWrapper;)VCodeLineNumberTableLocalVariableTablethisLineCommentParsedFileSLorg/jvnet/licensetool/LineCommentFile$LineCommentFileParser$LineCommentParsedFile;originalFile(Lorg/jvnet/licensetool/file/FileWrapper;
Exceptions
postParse()VsniffLineSeparator()Ljava/lang/String;blockContentb"Log/jvnet/licensetool/file/Block;i$Ljava/util/Iterator;
separatorgetComments()Ljava/util/List;blocksLocalVariableTypeTable;Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;=()Ljava/util/List<Lorg/jvnet/licensetool/file/CommentBlock;>;insertCommentBlock(Ljava/lang/String;)VcommentTextcb)Lorg/jvnet/licensetool/file/CommentBlock;adjustBlockAtIndex(I)VcontentIremove,(Lorg/jvnet/licensetool/file/CommentBlock;)VwriteTo+(Lorg/jvnet/licensetool/file/FileWrapper;)VblockfwcreateCommentBlock=(Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;
SourceFileLineCommentFile.java:>?h45java/util/ArrayList?KLMN89'org/jvnet/licensetool/file/CommentBlock
org/jvnet/licensetool/file/BlockTopCommentBlock\%org/jvnet/licensetool/file/PlainBlockNMLine.separator?Lkl`a?\
eLhjava/lang/StringBuilderSkipping file because is is not
writableN\L9kQorg/jvnet/licensetool/LineCommentFile$LineCommentFileParser$LineCommentParsedFile%org/jvnet/licensetool/file/ParsedFile;org/jvnet/licensetool/LineCommentFile$LineCommentFileParserjava/io/IOException
parseBlocks:(Lorg/jvnet/licensetool/file/FileWrapper;)Ljava/util/List;(Ljava/util/Collection;)Vjava/util/Listget(I)Ljava/lang/Object;addTagiterator()Ljava/util/Iterator;java/util/IteratorhasNext()Znext()Ljava/lang/Object;contents#org/jvnet/licensetool/util/ToolUtil&(Ljava/lang/String;)Ljava/lang/String;java/lang/SystemgetPropertyadd(Ljava/lang/Object;)Z(ILjava/lang/Object;)Vjava/lang/String
startsWith(Ljava/lang/String;)Z&org/jvnet/licensetool/file/FileWrappercanWritedelete/org/jvnet/licensetool/file/FileWrapper$OpenModeOpenModeWRITE1Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;open4(Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;)Vwrite%org/jvnet/licensetool/LineCommentFile
access$000()Ljava/util/logging/Logger;append-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
(Ljava/lang/Object;)Ljava/lang/StringBuilder;toStringjava/util/logging/LoggerinfoCloseprefix6org/jvnet/licensetool/LineCommentFile$LineCommentBlockLineCommentBlocka(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)Lorg/jvnet/licensetool/file/CommentBlock;!23456789:> ?@Ax,*+*,**Y+,*B
#+C,DF,GHIJKLAU#*
*

B"C#DFMNAXL*N-:-:MM,L++ L+B6
(14=BFILPVC>1O9)PQ=O9@RSXDFVT9UVA<YL*M,"N-+-
W+B%,7:C%PQ(RS<DF4W5X4WY6Z[\Ak*+M,
*,*BCDF]9^`aA?*
M,,N-* *Y* B(>C*b9?DF?cd1PQefAD*+ WB
CDF^_ghAi+!6+"+#$*M,,N-+% !&'Y()*+*,*-.+/:+X__a_B6
/47:X\_ehC*/iQRSiDFijHIJklAD*0+* 1BCDF]9mn=";< 2;E@
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```
dataLjava/lang/String;<init>$(Ljava/lang/String;Ljava/util/Set;)VCodeLineNumberTableLocalVariableTablethis'Lo
rg/jvnet/licensetool/file/PlainBlock;tagsLjava/util/Set;LocalVariableTypeTable#Ljava/util/Set<Ljava/lang/String;>;
Signature8(Ljava/lang/String;Ljava/util/Set<Ljava/lang/String;>;)V(Ljava/lang/String;)V+(Lorg/jvnet/licensetool/fil
e/FileWrapper;)Vfw(Lorg/jvnet/licensetool/file/FileWrapper;
Exceptionscontents(Ljava/lang/String;writeequals(Ljava/lang/Object;ZobjLjava/lang/Object;blockobjdatahashCod
e()IInstantiateTemplate8(Ljava/util/Map;)Lorg/jvnet/licensetool/file/PlainBlock;tokenreplacement
parametersLjava/util/Map;sbLjava/lang/StringBuilder;stLjava/util/StringTokenizer;
isKeywordZ5Ljava/util/Map<Ljava/lang/String;Ljava/lang/String;>;^(Ljava/util/Map<Ljava/lang/String;Ljava/lang/
String;>;)Lorg/jvnet/licensetool/file/PlainBlock;
splitFirst&()Lorg/jvnet/licensetool/generic/Pair;flinerest
patternStrpatternLjava/util/regex/Pattern;matcherLjava/util/regex/Matcher;l()Lorg/jvnet/licensetool/generic/Pair<Lo
rg/jvnet/licensetool/file/Block;Lorg/jvnet/licensetool/file/Block;>;
SourceFilePlainBlock.java&$%&::3%org/jvnet/licensetool/file/PlainBlock<=BCjava/lang/StringBuilderjava/util/Str
ingTokenizer@&:java/lang/String:&3(.+?)^Y:C"org/jvnet/licensetool/generic/Pair-.&'&
org/jvnet/licensetool/file/Blockjava/io/IOException(Ljava/util/Set;)V()V/org/jvnet/licensetool/file/FileWrapper$Ope
nModeOpenModeInnerClassesREAD1Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;&org/jvnet/licensetool/fi
le/FileWrapperopen4(Lorg/jvnet/licensetool/file/FileWrapper$OpenMode;)VreadAsStringclose'(Ljava/lang/String;L
java/lang/String;)V
hasMoreTokens()Z nextToken
java/util/Mapget&(Ljava/lang/Object;)Ljava/lang/Object;append-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toStringjava/util/regex/Patterncompile.(Ljava/lang/String;I)Ljava/util/r
egex/Pattern;3(Ljava/lang/CharSequence;)Ljava/util/regex/Matcher;java/util/regex/Matcherfindgroupend
substring(I)Ljava/lang/String;'(Ljava/lang/Object;Ljava/lang/Object;)V! #$$ &'(c*,*)56
7*
+,$%-./-012&3(F
**+)<= >*
+,
$%&4("'+*++
```

M+.)"CDFHIHI!J*"+, "56789:(/*)M*+;,4(A +*)
QR* +, 5678<=(#+*+ + M,N*-
)UVXY[^_**#+,#>?@, A%BC(2*)c*+,DE(_Y
MY*N6-6-:+:,W6 Y,)*
mnst u&v=xDyPzS{ *H&*F%=G%_+,_HIWJKILMFNO/_HP1QRS(gL+(M,*N-8-:~:Y Y* ! Y* !"Y Y** !)"
-O*> /T%- "U%g+,dV%
]WXTYZ1[[]
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*
"+ ,
"- .01<init>(Ljava/lang/String;)VCodeLineNumberTableLocalVariableTablethis
StringPairInnerClasses6Lorg/jvnet/licensetool/argparser/ArgParser\$StringPair;dataLjava/lang/String;indexI
SignatureJLorg/jvnet/licensetool/generic/Pair<Ljava/lang/String;Ljava/lang/String;>;
SourceFileArgParser.java2345"java/lang/IllegalArgumentExceptionjava/lang/StringBuilder678 does not contain a
:9;:<=>?@>A4org/jvnet/licensetool/argparser/ArgParser\$StringPair"org/jvnet/licensetool/generic/Pair'(Ljava/lang/
Object;Ljava/lang/Object;)Vjava/lang/StringindexOf(I)I()Vappend-
(Ljava/lang/String;)Ljava/lang/StringBuilder;toString()Ljava/lang/String;
substring(II)Ljava/lang/String;firstLjava/lang/Object;(I)Ljava/lang/String;second)org/jvnet/licensetool/argparser/Ar
gParser!B*+:=YY+ *+
*+`

,6A BB
5
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1#
suffixLjava/lang/String;parser'Lorg/jvnet/licensetool/file/FileParser;<init><(Ljava/lang/String;Lorg/jvnet/licensetool
/file/FileParser;)VCodeLineNumberTableLocalVariableTablethisFileSuffixRecognizerInnerClasses>Lorg/jvnet/lice
nsetool/RecognizerFactory\$FileSuffixRecognizer;
getParserQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/FileParser;file(Lorg/jvnet/licensetool
/file/FileWrapper;
SourceFileRecognizerFactory.java!
"<org/jvnet/licensetool/RecognizerFactory\$FileSuffixRecognizerjava/lang/Object)org/jvnet/licensetool/file/FileRec
ognizer()V'org/jvnet/licensetool/RecognizerFactory!

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'()*this\$03Lorg/jvnet/licensetool/argparser/ElementParserImpl;<init>6(Lorg/jvnet/licensetool/argparser/ElementPar

```
serImpl;)VCodeLineNumberTableLocalVariableTablethisInnerClasses5Lorg/jvnet/licensetool/argparser/ElementPar
serImpl$8;evaluate&(Ljava/lang/String;)Ljava/lang/Object;strLjava/lang/String;&(Ljava/lang/Object;)Ljava/lang/O
bject;x0Ljava/lang/Object;
SignatureeLjava/lang/Object;Lorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;
SourceFileElementParserImpl.javaEnclosingMethod+,-
./01java/lang/String3org/jvnet/licensetool/argparser/ElementParserImpl$8java/lang/Object+org/jvnet/licensetool/gen
eric/UnaryFunction1org/jvnet/licensetool/argparser/ElementParserImplgetPrimitiveParser@(Ljava/lang/Class;)Lorg
/jvnet/licensetool/generic/UnaryFunction;()Vjava/lang/ShortvalueOf%(Ljava/lang/String;)Ljava/lang/Short;
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```
%&'(<init>()VCodeLineNumberTableLocalVariableTablethisBinaryFileParserInnerClasses:Lorg/jvnet/licensetool/F
ileParserFactory$BinaryFileParser;
```

```
parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;file(Lorg/jvnet/licensetoo
l/file/FileWrapper;
```

```
Exceptions)
```

```
SourceFileFileParserFactory.java
```

```
*+,java/lang/StringBuilder Skipped: -.-
```

```
/012348org/jvnet/licensetool/FileParserFactory$BinaryFileParser%org/jvnet/licensetool/file/FileParserjava/io/IOExc
eption'org/jvnet/licensetool/FileParserFactory
```

```
access$000(Ljava/util/logging/Logger;append-(Ljava/lang/String;)Ljava/lang/StringBuilder;-
```

```
(Ljava/lang/Object;)Ljava/lang/StringBuilder;toString(Ljava/lang/String;java/util/logging/Loggerfine(Ljava/lang/St
ring;)V!
```

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setVerbose
setDryrunsetCopyrightsetStartyear(Ljava/lang/String;)VsetSkipdirsgetDirectoryScanner7(Ljava/io/File;)Lorg/apach
e/tools/ant/DirectoryScanner;baseDirexecutesfilerelPatharr\$[Ljava/lang/String;len\$Ii\$filesargs }
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s/ant/taskdefs/MatchingTask+org/jvnet/licensetool/LicenseTool\$Arguments#org/apache/tools/ant/BuildExceptionja
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* Y+
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0?@3>+4
RS567,-A@3F*+
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W567(-BC3L*+***4
J^567D0E23V***L+M,>6*,2:Y*:WY*M,4& bce'f6gBeHiQU5R6F0'G-3HI0JK-LKV67CMIQNRSTUVQOyP
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Signature()V<clinit>JLjava/lang/Enum<Lorg/jvnet/licensetool/argparser/ArgParser$PrimaryColor;>;
SourceFileArgParser.java5676org/jvnet/licensetool/argparser/ArgParser$PrimaryColor8 !
!java/lang/Enumclone(Ljava/lang/Object;)org/jvnet/licensetool/argparser/ArgParser5(Ljava/lang/Class;Ljava/lang/
String;)Ljava/lang/Enum;@0@@@@"
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<?xml version="1.0" encoding="UTF-8"?>
<!--
```

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-->

```
<project name="Jersey-Licence-Maintenance" default="jar" basedir=".">
```

```
<taskdef name="licensetool" classname="org.jvnet.licensetool.LicenseToolTask">
```

```
<classpath>
```

```
<pathelement location="lib/license-tool-1.0-SNAPSHOT.jar"/>
```

```
</classpath>
```

```
</taskdef>
```

```
<target name="check-copyright" description="Checks all source files has proper licence boilerplate">
```

```
<licensetool srcDir="..">
```

```
validate="true"
```

```
skipdirs=".svn"
```

```
copyright="copyright.txt"
```

```
includes="jersey/src/**/*.*.java jersey/test/**/*.*.java jersey/build.xml jersey/examples/**/*.*.java jersey/maven/*.*.xml **/*.*pom*.*.xml">
```

```
</licensetool>
```

```
</target>
```

```
<target name="fix-copyright" description="Fixes licence boilerplate at all source files">
```

```
<licensetool srcDir="..">
```

```
validate="false"
```

```
skipdirs=".svn"
```

```
copyright="copyright.txt"
```

```
includes="jersey/src/**/*.*.java jersey/test/**/*.*.java jersey/build.xml jersey/examples/**/*.*.java jersey/maven/*.*.xml **/*.*pom*.*.xml">
```

```
</licensetool>
```

```
</target>
```

```
</project>
```

```
<html>
```

```
<head>
```

```
<title>jersey: Jersey Dual License Header and License Notice GPL v2 and CDDL 1.1</title>
```

```
</head>
```

```
<body>
```

```
<h1><strong>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1</strong></h1>
```

```
<p>1. Definitions.</p>
```

```
<blockquote>1.1. &ldquo;Contributor&rdquo; means each individual or entity that creates or contributes to the
```


creation of Modifications.

</blockquote>

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</blockquote>

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</blockquote>

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</blockquote>

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</blockquote>

<blockquote>C. Any new file that is contributed or otherwise made available under the terms of this License.

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</blockquote>

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<blockquote>(b) under Patent Claims

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- */

```
package com.sun.jersey.impl.json;
```

```
import
java.util.LinkedList;
import java.util.List;
import javax.xml.bind.annotation.XmlRootElement;
```

```
@XmlRootElement
public class Permission {
    public Integer id;
    public List<Permission> children;    // optional, holds the children permission of this one

    public static Permission getRootPermission() {
        Permission result = new Permission();
        result.id = 7;
    }
}
```

```

    result.children = new LinkedList<Permission>();
    result.children.add(getChildPermission());
    return result;
}

public static Permission getChildPermission() {
    Permission result = new Permission();
    result.id = 8;
    result.children = new LinkedList<Permission>();
    result.children.add(get2ndLevelChildPermission());
    return result;
}

public static Permission get2ndLevelChildPermission() {
    Permission result = new Permission();
    result.id = 9;
    return result;
}
}
}
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/README
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/core-server/etc
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ool/generic/UnaryBooleanFunctionorg/jvnet/licensetool/Scanner

```

1.131 jersey-servlet 1.19

1.132 snappy-java 1.0.5

1.133 gson 2.2.4

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```
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonParser.java
*
/opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/LongSerializationPolicy.java
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 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonDeserializationContext.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonNull.java
 - *
 - /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonPrimitive.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/\$Gson\$Preconditions.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/SerializedName.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/reflect/TypeToken.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/Excluder.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonDeserializer.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonSerializer.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonArray.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/Since.java
 - *
 - /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonObject.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/Expose.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonSerializationContext.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonElement.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonParseException.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/ObjectConstructor.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/InstanceCreator.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/FieldNamingPolicy.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/annotations/Until.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/Gson.java
 - *
 - /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/GsonBuilder.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/JsonIOException.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/DefaultDateTypeAdapter.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/internal/Primitives.java
 - * /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/ExclusionStrategy.java
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* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonToken.java
*
/opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/stream/JsonScope.java
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* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/ConstructorConstructor.java
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*
/opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/DateTypeAdapter.java
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jar/com/google/gson/internal/bind/TimeTypeAdapter.java
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* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/TypeAdapters.java
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jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
*
/opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java

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* /opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
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/opt/cola/permits/1001008282_1651084430.84/0/gson-2-2-4-sources-
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jar/com/google/gson/internal/$Gson$Types.java
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1.138 jgrapht-core 0.9.1

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1.141 jline 2.14.3

1.142 jersey-guice 1.19

1.143 guice-servlet 4.0

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1.145 mssql-jdbc 6.2.1.jre7

1.146 protobuf-java 3.7.1

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jar/com/google/protobuf/RpcCallback.java  
*  
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jar/com/google/protobuf/AbstractMessageLite.java  
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*
/opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/UninitializedMessageException.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/IterableByteBufferInputStream.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-
jar/com/google/protobuf/FieldSet.java

```

1.147 xerces-j 2.12.0

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1.159 xmlenc 0.52

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1.160 jasper-compiler 5.5.23

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Found in path(s):

```

* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ELNode.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JspRuntimeContext.java
*
/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JDTCompiler.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/AntCompiler.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/BeanRepository.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JspConfig.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Compiler.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/tagplugin/TagPlugin.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JasperTagInfo.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/TagFileProcessor.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/TextOptimizer.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ELFunctionMapper.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/tagplugin/TagPluginContext.java
*
/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ScriptingVariabler.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/SmagGenerator.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/TldLocationsCache.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ELParser.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Localizer.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JavacErrorDetail.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Dumper.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/TagConstants.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ErrorHandler.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Node.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/SmagUtil.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/DefaultErrorHandler.java
*
/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Validator.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JspDocumentParser.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Parser.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/TagPluginManager.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ServletWriter.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/PageDataImpl.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JspReader.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ImplicitTagLibraryInfo.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/TagLibraryInfoImpl.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/SmagStratum.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ParserController.java
*
/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ErrorDispatcher.java
* /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Mark.java
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```

Found in path(s):

```
*/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Generator.java
*/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Collector.java
*
/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/PageInfo.java
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*/
// XXX - We use a proprietary call to the interpreter for now
```

Found in path(s):

```
*/opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/JspUtil.java
```

1.161 jets3t 0.9.0

1.161.1 Available under license :

```
/*
* JetS3t : Java S3 Toolkit
* Project hosted at http://bitbucket.org/jmurty/jets3t/
```

```

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*/
package org.jets3t.service.acl;

/**
 * Represents an access permission, as granted to grantees in an {@link AccessControlList}.
 * Only a limited set of permissions are available, each one is available as a public static
 * variable in this class of the form PERMISSION_XYZ.
 *
 * @author James Murty
 */
public
class Permission {
    public static final Permission PERMISSION_FULL_CONTROL = new Permission("FULL_CONTROL");
    public static final Permission PERMISSION_READ = new Permission("READ");
    public static final Permission PERMISSION_WRITE = new Permission("WRITE");
    public static final Permission PERMISSION_READ_ACP = new Permission("READ_ACP");
    public static final Permission PERMISSION_WRITE_ACP = new Permission("WRITE_ACP");

    private String permissionString = "";

    private Permission(String permissionString) {
        this.permissionString = permissionString;
    }

    /**
     * @param str
     * a string representation of a permission, eg <tt>FULL_CONTROL</tt>
     * @return
     * the Permission object represented by the given permission string
     */
    public static Permission parsePermission(String str) {
        Permission permission = null;
        if (str == null) {
            // Do nothing

```

```

    } else if (str.equals(PERMISSION_FULL_CONTROL.toString()))
    {
        permission = PERMISSION_FULL_CONTROL;
    } else if (str.equals(PERMISSION_READ.toString())) {
        permission = PERMISSION_READ;
    } else if (str.equals(PERMISSION_WRITE.toString())) {
        permission = PERMISSION_WRITE;
    } else if (str.equals(PERMISSION_READ_ACP.toString())) {
        permission = PERMISSION_READ_ACP;
    } else if (str.equals(PERMISSION_WRITE_ACP.toString())) {
        permission = PERMISSION_WRITE_ACP;
    } else {
        permission = null;
    }
    return permission;
}

/**
 * @return
 * the string representation of a permission object, eg <tt>FULL_CONTROL</tt>
 */
public String toString() {
    return permissionString;
}

public int hashCode() {
    return permissionString.hashCode();
}

public boolean equals(Object obj) {
    return (obj instanceof Permission) && toString().equals(obj.toString());
}
}

```

1.162 swagger-annotations 1.5.17

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```

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*/
```

```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
```

```
/**
```

```
* License metadata available within the info section of a Swagger definition, see
* https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
*
```

```
* @since 1.5.0
```

```
*/
```

```
@Target(ElementType.ANNOTATION_TYPE)
```

```
@Retention(RetentionPolicy.RUNTIME)
```

```
public @interface License {
```

```
/**
```

```
* The name of the license.
```

```
*
```

```
* @return the name of the license
```

```
*/
```

```
String name();
```

```
/**
```

```
* An optional URL for the license.
```

```
*
```

```
* @return an optional URL for the license.
```

```
*/
```

```
String url() default "";
```

```
}
```

1.163 jasper-runtime 5.5.23

1.163.1 Available under license :

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*/

Found in path(s):

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/PerThreadTagHandlerPool.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/JspFactoryImpl.java

*

/opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/JspContextWrapper.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/BodyContentImpl.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/JspWriterImpl.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/HttpJspBase.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/ProtectedFunctionMapper.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/ServletResponseWrapperInclude.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/JspSourceDependent.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/TagHandlerPool.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/JspFragmentHelper.java

* /opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/JspRuntimeLibrary.java

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*/

/**

```
* Proprietary method to evaluate EL expressions.
* XXX - This method should go away once the EL interpreter moves
* out of JSTL and into its own project. For now, this is necessary
* because the standard machinery is too slow.
*
* @param expression The expression to be evaluated
* @param expectedType The expected resulting type
* @param pageContext The page context
* @param functionMap Maps prefix and name to Method
* @return The result of the evaluation
*/
```

Found in path(s):

```
*/opt/cola/permits/1003295005_1615417881.44/0/runtime-zip/runtime/PageContextImpl.java
```

1.164 java-xmlbuilder 0.4

1.165 jetty-jndi 9.3.25.v20180904

1.166 jetty-annotations 9.3.25.v20180904

1.167 jetty-plus 9.3.25.v20180904

1.168 jetty 9.4.17.v20190418

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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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1.169 jetty-util 9.4.17.v20190418

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- * org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javac.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

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- * java.sun.security.ssl

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<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

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

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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1.170 jetty-security 9.4.17.v20190418

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- * 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

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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
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org.apache.tomcat:tomcat-util

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1.171 json 1.8

1.172 commons-beanutils 1.9.4

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1.173 jdo-api 3.0.1

1.174 jamon-runtime 2.4.1

1.175 jackson-datatype-jdk8 2.9.9

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info.java

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*
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jar/javax/validation/constraints/DecimalMax.java
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jar/javax/validation/groups/package-info.java
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jar/javax/validation/ConstraintViolation.java
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jar/javax/validation/Validator.java
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jar/javax/validation/constraints/DecimalMin.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/ConfigurationState.java

*

/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolationException.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidatorFactory.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidatorFactory.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidatorContext.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ParameterNameProvider.java

*

/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ConstructorDescriptor.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ConstraintDescriptor.java

*

/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/GroupDefinitionException.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDeclarationException.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Validation.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/TraversableResolver.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Future.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Size.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertTrue.java

*

/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/BootstrapState.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Payload.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDefinitionException.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/ValidationProvider.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidationException.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Null.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Valid.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/groups/Default.java

*

/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/OverridesAttribute.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Min.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/UnexpectedTypeException.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/GenericBootstrap.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Digits.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Past.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Max.java

*

/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Pattern.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/Scope.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/PropertyDescriptor.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ElementDescriptor.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/NotNull.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Constraint.java

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/executable/ValidateOnExecution.java
*
/opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/ElementKind.java

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jar/javax/validation/GroupSequence.java

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```
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/groups/ConvertGroup.java
```

1.177 zstd 1.3.8

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1.180 jetty-util 9.4.20.v20190813

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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

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- * java.sun.security.ssl

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<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

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1.181 hamcrest 1.3

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1.184 mina 2.0.4

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1.185 httpcomponents-client 4.5.6

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1.186 slf4j-log4j 1.7.25

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1.188 slf4j-log4j 1.7.21

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1.189 scala 2.11.12

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }

```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the

Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

three errors found

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- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/HeaderRegexRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/VirtualHostRuleContainer.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/RedirectPatternRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/package-info.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/ForwardedSchemeHeaderRule.java
- *
- /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/RedirectUtil.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/HeaderRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/RuleContainer.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/ValidUrlRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/TerminatingRegexRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/RegexRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/PatternRule.java
- *
- /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/CookiePatternRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/RewriteCustomizer.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/RewritePatternRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/CompactPathRule.java
- * /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-jar/org/eclipse/jetty/rewrite/handler/RedirectRegexRule.java

```
* /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/rewrite/handler/MsieSslRule.java
* /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/rewrite/handler/TerminatingPatternRule.java
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```

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1013125729_1591371840.85/0/jetty-rewrite-9-3-20-v20170531-sources-
jar/about.html
```

1.192 jcip-annotation 1.0 1

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```
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/NotThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/ThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-
```


jar/net/jcip/annotations/GuardedBy.java

*

/opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java

1.193 stax-api 1.0 2

1.193.1 Available under license :

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<html>
```

```
<body>
```

```
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```

```
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```

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<ul>
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```
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```

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<ul>
```

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<li>
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<p>
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```
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entity that creates or contributes to the creation of  
Modifications.
```

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</p>
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</li>
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<li>
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<p>
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the combination of the Original Software, prior  
Modifications used by a Contributor (if any), and the  
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```

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</p>
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</li>
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<li>
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<p>
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```
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```

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thereof.
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```
</p>
```

```
</li>
```


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</p>

<p>

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</p>

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</p>

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</p>

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</p>

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Ty Coon, President of Vice

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1.194 slf4j-log4j 2.8.2

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1.195 jetty 9.3.20.v20170531

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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HttpConfiguration.java
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```

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```
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/MovedContextHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/DebugListener.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Authentication.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/ScopedHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
```

jar/org/eclipse/jetty/server/HttpInput.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/gzip/GzipHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/NegotiatingServerConnection.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/JDBCSessionIdManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/AbstractConnector.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HomeBaseWarning.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/ErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/jmx/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/SocketCustomizationListener.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/ContextHandlerCollection.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Server.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Connector.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/PushBuilder.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/ShutdownHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/BufferedResponseHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/AbstractSession.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ForwardedRequestCustomizer.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HttpWriter.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/StatisticsHandler.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ResponseWriter.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/DefaultHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HandlerContainer.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ProxyConnectionFactory.java

```

* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HttpInputOverHTTP.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HostHeaderCustomizer.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HttpConnectionFactory.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/ContextHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HttpChannelState.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Request.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/IdleTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/LowResourceMonitor.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/SecureRequestCustomizer.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/HashSessionManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ServerConnectionStatistics.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/AsyncContextState.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HttpChannel.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/InclusiveByteRange.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/nio/NetworkTrafficSelectChannelConnector.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/RequestLogCollection.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ServletRequestHttpWrapper.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ConnectorStatistics.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/HandlerList.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/HandlerCollection.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/HashedSession.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-

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jar/org/eclipse/jetty/server/jmx/ServerMBean.java
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jar/org/eclipse/jetty/server/PushBuilderImpl.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/RequestLogHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/gzip/GzipFactory.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Handler.java
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jar/org/eclipse/jetty/server/handler/AsyncDelayHandler.java
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jar/org/eclipse/jetty/server/handler/ManagedAttributeListener.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
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jar/org/eclipse/jetty/server/HttpConnection.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/AsyncNCSARequestLog.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/AbstractSessionManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/AbstractConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/HttpOutput.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/InetAddressHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/gzip/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/NCSARequestLog.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/jmx/AbstractSessionManagerMBean.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/jmx/AbstractConnectorMBean.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/HandlerWrapper.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/SessionHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-

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jar/org/eclipse/jetty/server/NegotiatingServerConnectionFactory.java
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 jar/org/eclipse/jetty/server/handler/IPAccessHandler.java
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 jar/org/eclipse/jetty/server/ServletResponseHttpWrapper.java
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 jar/org/eclipse/jetty/server/SessionManager.java
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 jar/org/eclipse/jetty/server/ServerConnector.java
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 jar/org/eclipse/jetty/server/handler/AllowSymLinkAliasChecker.java
 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/server/HttpChannelOverHttp.java
 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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 /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/server/Response.java
 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/server/UserIdentity.java
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 jar/org/eclipse/jetty/server/handler/ThreadLimitHandler.java
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 /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/server/session/HashSessionIdManager.java
 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/server/QuietServletException.java
 * /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/server/handler/AbstractHandler.java

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* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/session/MemSession.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Utf8HttpWriter.java
*
/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/CookieCutter.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/Iso88591HttpWriter.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ResourceContentFactory.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ResourceCache.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/NetworkTrafficServerConnector.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/jmx/package-info.java
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/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/AbstractNCSAResponseLog.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/AbstractHandlerContainer.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
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* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/ResourceHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/handler/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/server/ClassLoaderDump.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-

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jar/org/eclipse/jetty/server/ConnectionFactory.java

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/opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/MultiPartCleanerListener.java

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Mailing Address: 7/9-11 Cook St, Sutherland, NSW 2232, Australia

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFEnjfA9nwd0ZUd8/ERArwdAJ4lzyXEi4zSIIiJwEAxknGPhzMRswCfRsdI
RUIoIOBYmYpaETSqxt2oLFU=
=Tr57
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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loohVQIICsparvjHMQuwqwCgiZFy
LBDVaad1bJ1v1EHY901kPcg=

=6rqm
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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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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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E-Mail: `jfarcan@apache.org`

Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgaq9Frj/CIrIRAmuJAKCFgi4W0UOH8IU+SV6PBHRF3BnLgCcDqqC

Zokttk0bTHfwaa5TxQbScw=

=N/w/

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Version: GnuPG v1.4.10 (GNU/Linux)

```
iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
RUkfJzAPZaLDtDMfiDz7ucdRL1RDodmz4VIF2+fbKeBYQquZXfXIeEghz+tKriK3
0M12guFkNLDteQp9h2p3Zu9JU3K0y4m84IDWq72HRmh1nRyD6lzZFhDGZ/D+69fF
tgYG0FwEit00MAq/IRbsXHLpBOY+Jyh/Xy+QRnQTcAQ+tAgOlxdS3w+JSs2sGdes
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FNWKpzaeX+SQgMak6hsuatXi6EsVk6sIaskwEgl6+Xk+HYWy23ZQ8BKQRLKOZTw=
=gAqN
```

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Full name: James Strachan
E-Mail: jstrachan@apache.org
Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Date: January 30th 2006

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
=8WW7
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PGP SIGNATURE-----
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Hash: SHA1

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Full name: Nicanor Gonzalez
E-Mail: ngonzalez@exist.com
Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji
6etDJ6AUj0jTuS159hUsWMQ=

=HmqH

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Full name: Julian Anthony Fox Gosnell

E-Mail: `jules@coredevelopers.net`

Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Date: 10th March 2006

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Version: GnuPG v1.4.2.1 (GNU/Linux)

iD8DBQFEEbh9SoT4b97cQk4RAnCMAKCuNGYLHa6n/Ot3GEdwCCLLeQxsMPACdEhnE
I/stizRWWZZkeLbcglzdQCE=
=piHm
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Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
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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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1.204 tephra-core 0.6.0

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The following artifacts are EPL.
* 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

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.

1.208 jetty-security 9.4.20.v20190813

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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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1.209 slf4j 1.7.30

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1.211 graphviz-java 0.7.0

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1.214 mockito-core 2.27.0

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1.228 enunciate-javac-support 2.7.0

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1.229 zookeeper-jute 3.6.0

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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: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.

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.

1.235 jackson 2.4.0

1.235.1 Available under license :

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1.236 jackson-databind 2.4.0

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 jar/com/fasterxml/jackson/databind/type/MapType.html
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 jar/com/fasterxml/jackson/databind/ser/impl/class-use/FailingSerializer.html
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 jar/com/fasterxml/jackson/databind/util/class-use/ByteBufferBackedInputStream.html
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 * [/opt/cola/permits/1028374027_1609784616.87/0/jackson-databind-2-4-0-javadoc-](#)
[jar/com/fasterxml/jackson/databind/deser/DataFormatReaders.AccessorForReader.html](#)
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[jar/com/fasterxml/jackson/databind/deser/impl/class-use/TypeWrappedDeserializer.html](#)
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[jar/com/fasterxml/jackson/databind/deser/std/EnumSetDeserializer.html](#)
 * [/opt/cola/permits/1028374027_1609784616.87/0/jackson-databind-2-4-0-javadoc-](#)
[jar/com/fasterxml/jackson/databind/jsonFormatVisitors/JsonValueFormatVisitor.Base.html](#)
 * [/opt/cola/permits/1028374027_1609784616.87/0/jackson-databind-2-4-0-javadoc-](#)
[jar/com/fasterxml/jackson/databind/jsontype/impl/AsExternalTypeSerializer.html](#)
 * [/opt/cola/permits/1028374027_1609784616.87/0/jackson-databind-2-4-0-javadoc-](#)
[jar/com/fasterxml/jackson/databind/jsonFormatVisitors/class-use/JsonNullFormatVisitor.Base.html](#)
 * [/opt/cola/permits/1028374027_1609784616.87/0/jackson-databind-2-4-0-javadoc-](#)
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1.238 jackson-jaxrs-base 2.10.3

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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Streaming API for XML

1.0

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

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- * java.sun.security.ssl

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

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- * Alec Wysoker
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mecab-ipadic-2.7.0-20070801

which can be obtained from

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jar/org/eclipse/jetty/jaas/package-info.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/UserInfo.java
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jar/org/eclipse/jetty/jaas/callback/AbstractCallbackHandler.java
*
/opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/DataSourceLoginModule.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/JDBCLoginModule.java
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jar/org/eclipse/jetty/jaas/callback/DefaultCallbackHandler.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/callback/RequestParameterCallback.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/AbstractDatabaseLoginModule.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/AbstractLoginModule.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/JAASPrincipal.java
*
/opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/callback/ObjectCallback.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/StrictRoleCheckPolicy.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/JAASGroup.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/JAASRole.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/PropertyFileLoginModule.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/LdapLoginModule.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/JAASLoginService.java
*
/opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/callback/package-info.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/spi/package-info.java
* /opt/ws_local/PERMITS_SQL/1031989776_1591845065.19/0/jetty-jaas-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/jaas/RoleCheckPolicy.java
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jar/org/eclipse/jetty/runner/Runner.java
* /opt/ws_local/PERMITS_SQL/1031989700_1591371851.05/0/jetty-runner-9-3-20-v20170531-sources-
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* /opt/ws_local/PERMITS_SQL/1031989713_1591844932.81/0/sqlline-1-3-0-sources-jar/sqlline/WrappedSQLException.java

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Installation

Required software

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Introduction

SQLLine is a pure-Java console based utility for connecting to relational databases and executing SQL commands. It is similar to other command-line database access utilities like sqlplus for Oracle, mysql for MySQL, and isql for Sybase/SQL Server. Since it is pure-Java, it is platform independent, and will run on any platform that can run Java 1.3 or higher.

License and Terms of Use

SQLLine is distributed under the BSD License, meaning that you are free to redistribute, modify, or sell the software with almost no restrictions. For the text of the license, see the license text.

For information on obtaining the software under another license, contact the copyright holder: mwp1@cornell.edu.

Obtaining SQLLine

SQLLine is hosted on SourceForge, and is located at <http://sqlline.sf.net>. The latest release can be downloaded from <http://sqlline.sf.net/download.html>.

Installation

Required

software

Installing SQLLine

Required software

SQLLine depends on the following software:

Java™ Virtual Machine - SQLLine is a pure java program, and requires Java version 1.3 or higher in order to run. The latest JVM can be downloaded from <http://java.sun.com>.

JLine - SQLLine uses the JLine console reader for command line editing, tab-completion, and command history. It can be downloaded from <http://jline.sf.net>. Version 0.8.1 or higher is required.

JDBC™ Driver(s) - Since SQLLine uses the Java Database Connectivity package to connect to your database, you

need to obtain the correct JDBC driver libraries for your database. Any JDBC compliant driver can be used for this purpose. Drivers can be located by referring to the section on known JDBC drivers, or else by referring to your database vendor's web site.

Installing SQLLine

There are currently no set standards for installing Java software on different platforms. The simplest method for installing

SQLLine in a platform independent way is as follows:

Create a new directory/folder where you like. This will be referred to as sqllinedir.

Download sqlline.jar into sqllinedir.

Download the latest jline.jar from <http://jline.sf.net> into sqllinedir.

Download your database's JDBC driver files into sqllinedir. Note that some JDBC drivers require some installation, such as uncompressing or unzipping.

Using SQLLine

Running SQLLine

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Command Completion

Running SQLLine

SQLLine can be run with the following command:

```
java {-Djava.ext.dirs=sqllinedir} {sqllinedir/sqlline.jar} [options...] [properties files...]
```

For example, if your sqllinedir is /usr/share/java/ (this is typical for Debian Linux), then you might run:

```
java -Djava.ext.dirs=/usr/share/java/ /usr/share/java/sqlline.jar
```

Once you have started SQLLine, you will a prompt that reads "sqlline> ". From here, you can enter either SQLLine commands (beginning with a "!" character),

or a SQL statement (if you are currently connected to a database). For example, entering "!help" will display a list of all the available commands.

Connecting to a database

SQLLine is only useful once you are connected to a database. In order to do so, you need to use the "!connect" command, with the JDBC URL of the database you are going to connect to, followed by the username and password (followed optionally by the driver class name). The JDBC URL is specific to the JDBC driver that you are using for your database, but will always start with "jdbc:", and usually has the machine name of the database and the name of the database itself as part of the string. Consult your driver's documentation for details on the URL to use.

For example, to connect to an Oracle database, you might enter:

```
sqlline> !connect jdbc:oracle:thin:@localhost:1521:mydb scott tiger oracle.jdbc.driver.OracleDriver
```

```
Connected to: Oracle (version Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
```

```
With
```

```
the Partitioning, OLAP and Oracle Data Mining options
```

```
JServer Release 9.2.0.1.0 - Production)
```

```
Driver: Oracle JDBC driver (version 9.0.1.0.0)
```

```
Autocommit status: true
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

Once you are connected, the prompt will change the reflect URL of the current connection.

SQLLine can also accept command line options to connect to a database. If a file is specified on the command line, it will be treated as a properties file, and try to connect to the database specified therein. For details, see the properties command documentation.

SQLLine allows you to have multiple connections to databases (either the same database, or a different database) open at the same time. Issuing the connect command multiple times will add the new connection to the list of open connections. The "current" connection (against which all SQL statements will be executed) can be switched with the go command. The currently open connections can be listed with the list command.

Issuing SQL
commands

Once you are connected to a database, you can begin SQL statements against the current connection. For example:

Example 1. Issuing SQL commands

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM MYTABLE;
```

```
+-----+
```

```
| ID |
```

```
+-----+
```

```
| 1 |
```

```
| 2 |
```

```
| 3 |
```

```
| 4 |
```

```
+-----+
```

```
4 rows selected (0.012 seconds)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

Command Completion

On UNIX systems, SQLLine allows command-line completion using the tab key. This will be familiar for users of such popular shells as bash and tcsh. In general, hitting the TAB key when part of the way through typing a command will fill in the rest of the command, or else will display a selection of appropriate possibilities.

Command Reference

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all — Execute SQL against all active connections

autocommit

autocommit — Enable or disable automatic transaction commit mode

batch

batch — Start or execute a batch of SQL statements

brief

brief — Enable terse output mode

close

close — Close the active connection

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columns

— Display columns of a table

commit

commit — Commit the current transaction

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connect — Connect to a database

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dbinfo — Provide information about the current database

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describe — Describe a table

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dropall — Drop all tables in the database

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exportedkeys — List exported foreign keys for a database

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go — Change to a different active connection

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help — Display help information

history

history — Display the command history

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importedkeys — List imported foreign keys for a database

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indexes — Display indexes for a table

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rollback — Roll back the current transaction
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scan — Scan class path for JDBC drivers
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script — Save executed commands to a file
set
set — Set a preference
sql
sql — Execute a SQL against a database
tables
tables — List all the tables in the database
verbose
verbose — Enable verbose output
all

Name

all — Execute SQL against all active connections

Synopsis

!all {SQL statement}

Description

Execute the specified SQL against all the current connections.

Example of "all" command

```
1: jdbc:mysql://localhost/mydb> !list
```

2 active connections:

```
#0 open  jdbc:oracle:thin:@localhost:1521:mydb
```

```
#1 open  jdbc:mysql://localhost/mydb
```

1:

```
jdbc:mysql://localhost/mydb> !all DELETE FROM COMPANY;
```

Executing SQL against: jdbc:oracle:thin:@localhost:1521:mydb

4 rows affected (0.004 seconds)

Executing SQL against: jdbc:mysql://localhost/mydb

1 row affected (3.187 seconds)

```
1: jdbc:mysql://localhost/mydb>
```

autocommit

Name

autocommit — Enable or disable automatic transaction commit mode

Synopsis

```
!autocommit {on/off}
```

Description

Set autocommit mode on or off. When autocommit is on, every individual SQL statement will be committed after it is issued. Otherwise, the commit command will need to be issued in order to commit any changes to the database.

Example of "autocommit" command

```
1: jdbc:mysql://localhost/mydb> !autocommit off
```

Autocommit status: false

```
1: jdbc:mysql://localhost/mydb>
```

batch

Name

batch — Start or execute a batch of SQL statements

Synopsis

`!batch`

Description

Start or execute a batch of SQL statements. The first time the statement is issued, subsequent SQL statements will be deferred until the batch command is issued again. Databases can frequently optimize multiple batched statements (e.g., for bulk data loading) in order to speed up execution.

Example of "batch" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !batch
```

Batching SQL statements. Run "batch" again to execute the batch.

```
0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (1);
0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (2);
0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (3);
0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (4);
0: jdbc:oracle:thin:@localhost:1521:mydb> !batch
```

Running batched SQL statements...

```
COUNT STATEMENT
```

```
1  INSERT INTO MYTABLE (ID) VALUES (1)
1  INSERT INTO MYTABLE (ID) VALUES (2)
1  INSERT INTO MYTABLE (ID) VALUES (3)
1  INSERT INTO MYTABLE (ID) VALUES (4)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM MYTABLE;
```

```
+-----+
```

```
| ID |
```

```
+-----+
```

```
| 1 |
```

```
|
```

```
2 |
```

```
| 3 |
```

```
| 4 |
```

```
+-----+
```

```
4 rows selected (0.012 seconds)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

brief

Name

brief — Enable terse output mode

Synopsis

!brief

Description

Set verbose mode off. This will prevent printing of stack traces when errors occur.

Example of "brief" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;
```

```
Error: ORA-00942: table or view does not exist (state=42000,code=942)
```

```
java.sql.SQLException: ORA-00942: table or view does not exist
```

```
    at oracle.jdbc.dbaccess.DBError.throwSQLException(DBError.java:180)
    at oracle.jdbc.ttc7.TTIoer.processError(TTIoer.java:208)
    at oracle.jdbc.ttc7.Oall7.receive(Oall7.java:543)
    at oracle.jdbc.ttc7.TTC7Protocol.doOall7(TTC7Protocol.java:1451)
    at oracle.jdbc.ttc7.TTC7Protocol.parseExecuteDescribe(TTC7Protocol.java:651)
    at oracle.jdbc.driver.OracleStatement.doExecuteQuery(OracleStatement.java:2110)
    at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:2324)
    at oracle.jdbc.driver.OracleStatement.execute(OracleStatement.java:909)
    at sqlline.SqlLine$Commands.sql(SqlLine.java:3183)
    at sqlline.SqlLine.dispatch(SqlLine.java:771)
    at sqlline.SqlLine.begin(SqlLine.java:634)
    at sqlline.SqlLine.main(SqlLine.java:332)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !brief
```

```
verbose: off
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;
```

```
Error: ORA-00942: table or view does not exist (state=42000,code=942)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

```
close
```

Name

close — Close the active connection

Synopsis

!close

Description

Close the current connection and remote it from the connection list.

Example of "close" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !list
```

1 active connection:

```
#0 open jdbc:oracle:thin:@localhost:1521:mydb
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !close
```

Closing: oracle.jdbc.driver.OracleConnection

```
sqlline> !list
```

No

active connections

```
sqlline>
```

columns

Name

columns — Display columns of a table

Synopsis

```
!columns {table name}
```

Description

List the columns in the specified table.

Example of "columns" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !columns EMPLOYEE
```

```
+-----+-----+-----+-----+
| TABLE_NAME | COLUMN_NAME | DATA_TYPE | TYPE_NAME |
+-----+-----+-----+-----+
| EMPLOYEE   | ID          | 3         | NUMBER   |
| EMPLOYEE   | FIRST_NAME  | 12        | VARCHAR2 |
| EMPLOYEE   | LAST_NAME   | 12        | VARCHAR2 |
```

+-----+-----+-----+-----+

0: jdbc:oracle:thin:@localhost:1521:mydb>

commit

Name

commit — Commit the current transaction

Synopsis

!commit

Description

Commit the current transaction, if autocommit is off.

Example of "commit" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !autocommit off

Autocommit status: false

0: jdbc:oracle:thin:@localhost:1521:mydb>

```
INSERT INTO EMPLOYEE (ID, FIRST_NAME, LAST_NAME) VALUES (1, 'Bob', 'Smith');
```

1 row affected (1.254 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> !commit

Commit complete (0.661 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM EMPLOYEE;

```
+-----+-----+-----+
| ID      | FIRST_NAME | LAST_NAME |
+-----+-----+-----+
| 1       | Bob       | Smith    |
+-----+-----+-----+
```

1 row selected (0.309 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb>

connect

Name

connect — Connect to a database

Synopsis

```
!connect {url} {username} {password} [driver class]
```

Description

Connect to a database.

Example of "commit" command

```
sqlline> !connect jdbc:oracle:thin:@localhost:1521:mydb scott tiger oracle.jdbc.driver.OracleDriver
```

```
Connected to: Oracle (version Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
```

```
With the Partitioning, OLAP and Oracle Data Mining options
```

```
JServer Release
```

```
9.2.0.1.0 - Production)
```

```
Driver: Oracle JDBC driver (version 9.0.1.0.0)
```

```
Autocommit status: true
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

dbinfo

Name

dbinfo — Provide information about the current database

Synopsis

```
!dbinfo
```

Description

List metadata information about the current connection.

Example of "dbinfo" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !dbinfo
```

```
allProceduresAreCallable          false
allTablesAreSelectable            false
dataDefinitionCausesTransactionCommit  true
dataDefinitionIgnoredInTransactions    false
doesMaxRowSizeIncludeBlobs          true
getCatalogSeparator
getCatalogTerm
getDatabaseProductName            Oracle
```

```

getDatabaseProductVersion          Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.1.0 - Production
getDefaultTransactionIsolation
    2
getDriverMajorVersion              9
getDriverMinorVersion              0
getDriverName                      Oracle JDBC driver
getDriverVersion                   9.0.1.0.0
getExtraNameCharacters              $#
getIdentifierQuoteString            "
getMaxBinaryLiteralLength          1000
getMaxCatalogNameLength            0
getMaxCharLiteralLength            2000
getMaxColumnNameLength             30
getMaxColumnsInGroupBy             0
getMaxColumnsInIndex               32
getMaxColumnsInOrderBy             0
getMaxColumnsInSelect              0
getMaxColumnsInTable               1000
getMaxConnections                  0
getMaxCursorNameLength             0
getMaxIndexLength                  0
getMaxProcedureNameLength
    30
getMaxRowSize                      2000
getMaxSchemaNameLength             30
getMaxStatementLength              65535
getMaxStatements                   0
getMaxTableNameLength              30
getMaxTablesInSelect               0
getMaxUserNameLength               30
getNumericFunctions                ABS,CEIL,COS,COSH,EXP,FLOOR,
LN,LOG,MOD,POWER,ROUND,SIGN,
SIN,SINH,SQRT,TAN,TANH,TRUNC,
AVG,COUNT,GLB,LUB,MAX,MIN,
STDDEV,SUM,VARIANCE
getProcedureTerm                   procedure
getSchemaTerm                      schema
getSearchStringEscape              //
getSQLKeywords
    ACCESS, ADD, ALTER, AUDIT,
    CLUSTER, COLUMN, COMMENT,
    COMPRESS, CONNECT, DATE, DROP,
    EXCLUSIVE, FILE, IDENTIFIED,
    IMMEDIATE, INCREMENT, INDEX,
    INITIAL, INTERSECT,
    LEVEL, LOCK, LONG, MAXEXTENTS,

```

	MINUS, MODE, NOAUDIT, NOCOMPRESS, NOWAIT, NUMBER, OFFLINE, ONLINE, PCTFREE, PRIOR, all_PL_SQL_reserved_words
getStringFunctions	CHR, INITCAP, LOWER, LPAD, LTRIM, NLS,_INITCAP, NLS,_LOWER, NLS,_UPPER, REPLACE, RPAD, RTRIM, SOUNDIX, SUBSTR, SUBSTRB, TRANSLATE, UPPER, ASCII, INSTR, INSTRB, LENGTH, LENGTHB, NLSSORT, CHARTOROWID, CONVERT, HEXTORAW, RAWTOHEX, ROWIDTOCHAR, TO_CHAR, TO_DATE, TO_LABEL, TO_MULTI_BYTE, TO_NUMBER, TO_SINGLE_BYTE
getSystemFunctions	DUMP, GREATEST, GREATEST_LB, LEAST, LEAST_UB, NVL, UID, USER, USERENV, VSIZE
getTimeDateFunctions	ADD_MONTHS, LAST_DAY, MONTHS_BETWEEN, NEW_TIME, NEXT_DAY, ROUND, SYSDATE, TRUNC
getURL	jdbc:oracle:thin:@localhost:1521:mydb
getUserName	MYDB
isCatalogAtStart	false
isReadOnly	false
nullPlusNonNullIsNull	true
nullsAreSortedAtEnd	false
nullsAreSortedAtStart	false
nullsAreSortedHigh	false
nullsAreSortedLow	true
storesLowerCaseIdentifiers	false
storesLowerCaseQuotedIdentifiers	false
storesMixedCaseIdentifiers	false
storesMixedCaseQuotedIdentifiers	true
storesUpperCaseIdentifiers	true
storesUpperCaseQuotedIdentifiers	false
supportsAlterTableWithAddColumn	true
supportsAlterTableWithDropColumn	false
supportsANSI92EntryLevelSQL	true
supportsANSI92FullSQL	false
supportsANSI92IntermediateSQL	false

supportsBatchUpdates	true
supportsCatalogsInDataManipulation	false
supportsCatalogsInIndexDefinitions	false
supportsCatalogsInPrivilegeDefinitions	false
supportsCatalogsInProcedureCalls	false
supportsCatalogsInTableDefinitions	false
supportsColumnAliasing	true
supportsConvert	true
supportsCoreSQLGrammar	true
supportsCorrelatedSubqueries	true
supportsDataDefinitionAndDataManipulationTransactionstrue	
supportsDataManipulationTransactionsOnly	true
supportsDifferentTableCorrelationNames	true
supportsExpressionsInOrderBy	true
supportsExtendedSQLGrammar	true
supportsFullOuterJoins	true
supportsGroupBy	true
supportsGroupByBeyondSelect	true
supportsGroupByUnrelated	true
supportsIntegrityEnhancementFacility	true
supportsLikeEscapeClause	true
supportsLimitedOuterJoins	true
supportsMinimumSQLGrammar	true
supportsMixedCaseIdentifiers	false
supportsMixedCaseQuotedIdentifiers	true
supportsMultipleResultSets	false
supportsMultipleTransactions	true
supportsNonNullableColumns	true
supportsOpenCursorsAcrossCommit	false
supportsOpenCursorsAcrossRollback	false
supportsOpenStatementsAcrossCommit	false
supportsOpenStatementsAcrossRollback	false
supportsOrderByUnrelated	true
supportsOuterJoins	true
supportsPositionedDelete	true
supportsPositionedUpdate	true
supportsSchemasInDataManipulation	true
supportsSchemasInIndexDefinitions	true
supportsSchemasInPrivilegeDefinitions	true
supportsSchemasInProcedureCalls	true
supportsSchemasInTableDefinitions	true
supportsSelectForUpdate	true
supportsStoredProcedures	true
supportsSubqueriesInComparisons	true
supportsSubqueriesInExists	true
supportsSubqueriesInIns	

```

true
supportsSubqueriesInQuantifieds      true
supportsTableCorrelationNames        true
supportsTransactions                  true
supportsUnion                         true
supportsUnionAll                     true
usesLocalFilePerTable                 false
usesLocalFiles                       false

```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

```
describe
```

Name

describe — Describe a table

Synopsis

```
!describe [table name]
```

Description

Synonym for columns (if an argument is specified) or tables (if no argument is specified).

Example of "describe" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !describe EMPLOYEE
```

```

+-----+-----+-----+-----+-----+
| TABLE_SCHEM | TABLE_NAME | COLUMN_NAME | DATA_TYPE | TYPE_NAME |
+-----+-----+-----+-----+-----+
| MYDB        | EMPLOYEE   | ID          | 3          | NUMBER    |
|
| MYDB        | EMPLOYEE   | FIRST_NAME  | 12         | VARCHAR2  |
| MYDB        | EMPLOYEE   | LAST_NAME   | 12         | VARCHAR2  |
+-----+-----+-----+-----+-----+

```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

```
dropall
```

Name

dropall — Drop all tables in the database

Synopsis

!dropall

Description

Drop every table in the database.

Example of "dropall" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !dropall

Really drop every table in the database? (y/n) y

```

1/5    DROP TABLE COMPANY;
2/5    DROP TABLE EMPLOYEE;
3/5    DROP TABLE PROJECTS;
4/5    DROP TABLE EMPLOYEE_PROJECTS;
5/5    DROP TABLE COMPANYEMPLOYEES;

```

0: jdbc:oracle:thin:@localhost:1521:mydb>

Warning on using "dropall"

Warning

This command will destroy all data in the database (subject to access restrictions). Use with extreme caution.

exportedkeys

Name

exportedkeys — List exported foreign keys for a database

Synopsis

```
!exportedkeys {table
name}
```

Description

List all the foreign keys that are exported by the specified table.

Example of "exportedkeys" command

0: jdbc:hsqldb:db-hypersonic> !exportedkeys COMPANY

```

+-----+-----+-----+-----+
| PKTABLE_SCHEM | PKTABLE_NAME | PKCOLUMN_NAME | FKTABLE_CAT |
+-----+-----+-----+-----+

```



```
|          | COMPANY    | COMPANY_ID  |          |
+-----+-----+-----+-----+
```

0: jdbc:hsqldb:db-hypersonic>

go

Name

go — Change to a different active connection

Synopsis

!go {connection number}

Description

Switch to the specified connection.

Example of "go" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !list

2 active connections:

#0 open jdbc:oracle:thin:@localhost:1521:mydb

#1 open jdbc:mysql://localhost/mydb

0: jdbc:oracle:thin:@localhost:1521:mydb> !go 1

1: jdbc:mysql://localhost/mydb> !go 0

0: jdbc:oracle:thin:@localhost:1521:mydb>

help

Name

help

— Display help information

Synopsis

!help

Description

Display information about allowed commands.

Example of "help" command

```
sqlline> !help
```

```
!all      Execute the specified SQL against all the current connections
!autocommit  Set autocommit mode on or off
!batch    Start or execute a batch of statements
!brief    Set verbose mode off
!close    Close the current connection to the database
!columns  List all the columns for the specified table
!commit   Commit the current transaction (if autocommit is off)
!connect  Open a new connection to the database.
!dbinfo   Give metadata information about the database
!describe Describe a table
!dropall  Drop all tables in the current database
!exportedkeys List all the exported keys for the specified table
!go       Select the current connection
!help     Print a summary of command usage
!history  Display the command
history
!importedkeys List all the imported keys for the specified table
!indexes  List all the indexes for the specified table
!isolation Set the transaction isolation for this connection
!list     List the current connections
!metadata Obtain metadata information
!outputformat Set the output format for displaying results
           (table,vertical,csv,tsv,xmlattrs,xmlelements)
!properties Connect to the database specified in the properties file(s)
!primarykeys List all the primary keys for the specified table
!procedures List all the procedures
!quit     Exits the program
!reconnect Reconnect to the database
!record   Record all output to the specified file
!rehash  Fetch table and column names for command completion
!rollback Roll back the current transaction (if autocommit is off)
!run     Run a script from the specified file
!save    Save the current variables
         and aliases
!scan    Scan for installed JDBC drivers
!script  Start saving a script to a file
!set     Set a sqlline variable
!sql     Execute a SQL command
!tables  List all the tables in the database
!verbose Set verbose mode on
```

Comments, bug reports, and patches go to mwp1@cornell.edu

sqlline>

history

Name

history — Display the command history

Synopsis

!history

Description

Display the command history.

Example of "history" command

sqlline> !history

1. !outputformat xmlelements
2. SELECT * FROM PCPOINT;
3. !outputformat vertical
4. SELECT * FROM PCPOINT;
5. !tables

sqlline>

importedkeys

Name

importedkeys — List imported foreign keys for a database

Synopsis

!importedkeys {table name}

Description

List all the foreign keys that are imported by the specified table.

Example of "importedkeys" command

0: jdbc:hsqldb:db-hypersonic> !importedkeys EMPLOYEE

PKTABLE_SCHEM	PKTABLE_NAME	PKCOLUMN_NAME	FKTABLE_CAT
	COMPANY	COMPANY_ID	

0: jdbc:hsqldb:db-hypersonic>

indexes

Name

indexes — Display indexes for a table

Synopsis

!indexes {table name}

Description

List all the indexes on the specified table name.

Example of "indexes" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !indexes EMPLOYEE

TABLE_NAME	NON_UNIQUE	INDEX_NAME	TYPE	COLUMN_NAME
EMPLOYEE	0		0	
EMPLOYEE	0	SYS_C003115849	1	ID
EMPLOYEE	1	FIRST_NAME	1	FIRST_NAME
EMPLOYEE	1	LAST_NAME	1	LAST_NAME

0: jdbc:oracle:thin:@localhost:1521:mydb>

isolation

Name

isolation — Set the transaction isolation mode for the active connection

Synopsis

!isolation {isolation level}

Description

Set the isolation level for the current transaction. For a description of the different isolation levels, see http://java.sun.com/j2se/1.3/docs/api/java/sql/Connection.html#field_detail.

Example of "isolation" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !isolation TRANSACTION_READ_UNCOMMITTED
```

Error: READ_COMMITTED and SERIALIZABLE are the only valid transaction levels (state=,code=17030)

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !isolation TRANSACTION_SERIALIZABLE
```

Transaction isolation: TRANSACTION_SERIALIZABLE

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

list

Name

list — Display all active connections

Synopsis

```
!list
```

Description

List all the current connections.

Example

of "list" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !list
```

2 active connections:

```
#0 open jdbc:oracle:thin:@localhost:1521:mydb
```

```
#1 open jdbc:mysql://localhost/mydb
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

metadata

Name

metadata — Invoke arbitrary metadata commands

Synopsis

```
!metadata {methodname} {params...}
```

Description

Execute an arbitrary metadata method against the current connection. reppurpose are separated by spaces. Use "" for a blank String, and null for a null parameter. For information on available metadata methods, see <http://java.sun.com/j2se/1.3/docs/api/java/sql/DatabaseMetaData.html>.

Example of "metadata" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !metadata supportsSelectForUpdate
```

```
true
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !metadata getTypeInfo
```

```
+-----+-----+-----+-----+-----+
| TYPE_NAME | DATA_TYPE | PRECISION | LITERAL_PREFIX | LITERAL_SUFFIX |
+-----+-----+-----+-----+-----+
|
| NUMBER   | -7       | 1         |                 |                 |
| NUMBER   | -6       | 3         |                 |                 |
| NUMBER   | -5       | 38        |                 |                 |
| LONG RAW | -4       | 2147483647 | '               | '               |
| RAW      | -3       | 2000      | '               | '               |
| LONG     | -1       | 2147483647 | '               | '               |
| CHAR     | 1        | 2000      | '               | '               |
| NUMBER   | 2        | 38        |                 |                 |
| NUMBER   | 4        | 10        |                 |                 |
| NUMBER   | 5        | 5         |                 |                 |
| FLOAT    | 6        | 63        |                 |                 |
| REAL     | 7        | 63        |                 |                 |
| VARCHAR2
| 12      | 4000     | '         | '               |                 |
| DATE    | 93      | 7         |                 |                 |
| STRUCT  | 2002    | 0         | '               | '               |
| ARRAY   | 2003    | 0         | '               | '               |
| BLOB    | 2004    | 4294967295 |                 |                 |
| CLOB    | 2005    | 4294967295 | '               | '               |
| REF     | 2006    | 0         | '               | '               |
+-----+-----+-----+-----+-----+
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !meta getProcedureColumns null % %JAVA% %
```

```
+-----+-----+-----+-----+-----+
```

```

| PROCEDURE_CAT | PROCEDURE_SCHEM | PROCEDURE_NAME | COLUMN_NAME |
+-----+-----+-----+-----+
| DBMS_JAVA    | SYS              | DROPJAVA       | OPTIONS      |
|              |                  |                |              |
| XMLPARSER    | SYS              | GETJAVARELEASEVERSION |          |
| DBMS_JAVA    | SYS              | LOADJAVA       | OPTIONS      |
| DBMS_JAVA    | SYS              | LOADJAVA       | OPTIONS      |
| DBMS_JAVA    | SYS              | LOADJAVA       | RESOLVER     |
+-----+-----+-----+-----+

```

0: jdbc:oracle:thin:@localhost:1521:mydb>

outputformat

Name

outputformat — Change the method for displaying SQL results

Synopsis

!outputformat {format name}

Description

Set the mode for displaying results from statements. This is useful for saving output from SQL statements to either a visually pleasing format or an easily parseable format.

Example of table output formatting

```

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat table
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
+-----+-----+
| COMPANY_ID | NAME |
+-----+-----+
| 1          | Apple |
| 2          | Sun   |
| 3          | IBM   |
| 4          | Microsoft |
+-----+-----+
4 rows selected (0.012 seconds)

```

Example of vertical output formatting

```

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat vertical
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
COMPANY_ID 1
NAME       Apple

```

COMPANY_ID 2

NAME Sun

COMPANY_ID 3

NAME IBM

COMPANY_ID 4

NAME Microsoft

4 rows selected (0.011 seconds)

Example of CSV output formatting

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat csv
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
```

```
'COMPANY_ID','NAME'
```

```
'1','Apple'
```

```
'2','Sun'
```

```
'3','IBM'
```

```
'4','Microsoft'
```

4 rows selected (0.012 seconds)

Example of TSV output formatting

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat tsv
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
```

```
'COMPANY_ID' 'NAME'
```

```
'1' 'Apple'
```

```
'2' 'Sun'
```

```
'3' 'IBM'
```

```
'4'
```

```
'Microsoft'
```

4 rows selected (0.013 seconds)

Example of XML attribute output formatting

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat xmlattr
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
```

```
<resultset>
```

```
<result COMPANY_ID="1" NAME="Apple"/>
```

```
<result COMPANY_ID="2" NAME="Sun"/>
```

```
<result COMPANY_ID="3" NAME="IBM"/>
```

```
<result COMPANY_ID="4" NAME="Microsoft"/>
```

```
</resultset>
```

4 rows selected (0.012 seconds)

Example of XML element output formatting


```

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat xmlelements
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY
<resultset>
<result>
  <COMPANY_ID>1</COMPANY_ID>
  <NAME>Apple</NAME>
</result>
<result>
  <COMPANY_ID>2</COMPANY_ID>
  <NAME>Sun</NAME>
</result>
<result>
  <COMPANY_ID>3</COMPANY_ID>
  <NAME>IBM</NAME>
</result>
<result>
  <COMPANY_ID>4</COMPANY_ID>
  <NAME>Microsoft</NAME>
</result>
</resultset>
4 rows selected (0.02 seconds)
0: jdbc:oracle:thin:@localhost:1521:mydb>

```

primarykeys

Name

primarykeys

— Display the primary key columns for a table

Synopsis

```
!primarykeys {table name}
```

Description

List all the primary keys for the specified table.

Example of "primarykeys" command

```
0: jdbc:hsqldb:db-hypersonic> !primarykeys COMPANY
```

```

+-----+-----+-----+-----+-----+
| TABLE_SCHEM | TABLE_NAME | COLUMN_NAME | KEY_SEQ | PK_N |
+-----+-----+-----+-----+-----+
|          | COMPANY    | COMPANY_ID  | 1       | 1    |
+-----+-----+-----+-----+-----+

```

0: jdbc:hsqldb:db-hypersonic>

procedures

Name

procedures — List stored procedures

Synopsis

!procedures [procedure name pattern]

Description

Display a list of all the stored procedures that are exposed by the current database.

Example of "procedures" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !procedures %JDBC%

```
+-----+-----+-----+
|
| PROCEDURE_CAT | PROCEDURE_SCHEM | PROCEDURE_NAME |
+-----+-----+-----+
| WK_ADM      | WKSYS          | GET_JDBC_DRIVER |
| WK_ADM      | WKSYS          | SET_JDBC_DRIVER |
+-----+-----+-----+
```

0: jdbc:oracle:thin:@localhost:1521:mydb>

properties

Name

properties — Connect to the database defined in the specified properties file.

Synopsis

!properties {file}

Description

Connect to the database defined in the specified properties file. The properties file is expected to have the following values:

url: the database URL to which to connect

driver: the driver class that handles the URL. If unspecified, SQLLine will automatically scan the CLASSPATH for an appropriate driver

user: the username to use to connect to the database. If unspecified, SQLLine will prompt for it.

password: the password to use to connect to the database. If unspecified, SQLLine will prompt for it.

The

key names in the properties file can also use JDO semantics for the properties. These properties are "javax.jdo.option.ConnectionURL", "javax.jdo.option.ConnectionDriverName", "javax.jdo.option.ConnectionUserName", and "javax.jdo.option.ConnectionPassword". Furthermore, any properties that end with "ConnectionURL", "ConnectionDriverName", "ConnectionUserName", and "ConnectionPassword" will be used for the connection.

Example of "properties" command

```
sqlline> !properties test.properties
```

Connecting to jdbc:mysql://localhost/mydb

Enter password for jdbc:mysql://localhost/mydb: *****

Connected to: MySQL (version 3.23.52-log)

Driver: MySQL-AB JDBC Driver (version 3.0.8-stable (\$Date: 2008/12/10 \$, \$Revision: #3 \$))

Autocommit status: true

Transaction isolation: TRANSACTION_READ_COMMITTED

```
0: jdbc:mysql://localhost/mydb>
```

```
quit
```

Name

quit — Exit SQLLine

Synopsis

```
!quit
```

Description

Exit SQLLine.

Example of "reconnect" command

```
0: jdbc:hsqldb:db-hypersonic> !quit
```

Closing: org.hsqldb.jdbcConnection

reconnect

Name

reconnect

— Reconnect to the current database

Synopsis

!reconnect

Description

Reconnect to the current database.

Example of "reconnect" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !reconnect
```

Reconnecting to "jdbc:oracle:thin:@localhost:1521:mydb"...

Closing: oracle.jdbc.driver.OracleConnection@4428d3

```
Connected to: Oracle (version Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.1.0 - Production)
Driver: Oracle JDBC driver (version 9.0.1.0.0)
Autocommit status: true
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

record

Name

record — Begin recording all output from SQL commands

Synopsis

!record {file name}

Description

Save all output from the session to the specified file.

Example of "record" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !record /tmp/mysession.out
```

Saving all output to "/tmp/mysession.out". Enter "record" with no arguments to stop it.

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
```

```
+-----+-----+
| COMPANY_ID | NAME |
+-----+-----+
| 3         | IBM   |
| 4         | Microsoft |
| 1         | Apple |
| 2         | Sun   |
+-----+-----+
```

```
4 rows selected (0.011 seconds)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !record
```

Recording stopped.

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

rehash

Name

rehash — Obtain a list of all tables and columns from the database

Synopsis

```
!rehash
```

Description

Get a list of all tables and columns from the database in order to include them in the list for tab-completion of SQL statements. This is done automatically on connect when the fastconnect option is enabled.

Example of "rehash" command

```
0: jdbc:hsqldb:db-hypersonic> !rehash
```

Building list of tables and columns for tab-completion (set fastconnect to true to skip)...

7/7 (100%) Done

Done

```
0: jdbc:hsqldb:db-hypersonic>
```

Warning
on using "rehash"

Caution

This operation can be extremely slow for some databases.

rollback

Name

rollback — Roll back the current transaction

Synopsis

!rollback

Description

Rollback the current transaction, if autocommit is off.

Example of "rollback" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !autocommit off
```

Autocommit status: false

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
```

```
+-----+-----+  
| COMPANY_ID | NAME |  
+-----+-----+  
| 3      | IBM   |  
| 4      | Microsoft |  
| 1      | Apple |  
| 2      | Sun   |  
+-----+-----+
```

4 rows selected (0.011 seconds)

```
0: jdbc:oracle:thin:@localhost:1521:mydb> DELETE FROM COMPANY;
```

4 rows affected (0.004 seconds)

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
```

```
+-----+-----+  
| COMPANY_ID | NAME |  
+-----+-----+
```

```
+-----+-----+  
No rows selected (0.01 seconds)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>  
!rollback
```

```
Rollback complete (0.016 seconds)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
```

```
+-----+-----+  
| COMPANY_ID | NAME |  
+-----+-----+  
| 3         | IBM   |  
| 4         | Microsoft |  
| 1         | Apple |  
| 2         | Sun   |  
+-----+-----+  
4 rows selected (0.01 seconds)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

```
run
```

```
Name
```

```
run — Execute a command script
```

```
Synopsis
```

```
!run {file name}
```

```
Description
```

Run the individual commands specified in the file name. The file should consist of individual SQL statements or SQLLine commands. Lines beginning with "#" are interpreted as comments and ignored. If any errors occur while running the script, the script will be aborted, unless the force preference is set to true.

```
Example of "run" command
```

```
0: jdbc:hsqldb:db-hypersonic> !run example.sql  
1/11 CREATE TABLE COMPANY (COMPANY_ID INT, NAME VARCHAR(255));  
No rows affected  
(0.001 seconds)  
2/11 INSERT INTO COMPANY VALUES (1, 'Apple');  
1 row affected (0 seconds)  
3/11 INSERT INTO COMPANY VALUES (2, 'Sun');  
1 row affected (0 seconds)
```

```

4/11    INSERT INTO COMPANY VALUES (3, 'IBM');
1 row affected (0.001 seconds)
5/11    INSERT INTO COMPANY VALUES (4, 'Microsoft');
1 row affected (0.015 seconds)
6/11    CREATE TABLE EMPLOYEE (ID INT, FIRST_NAME VARCHAR(255), LAST_NAME
VARCHAR(255), COMPANY INT);
No rows affected (0.004 seconds)
7/11    CREATE INDEX FIRST_NAME ON EMPLOYEE(FIRST_NAME);
No rows affected (0 seconds)
8/11    CREATE INDEX LAST_NAME ON EMPLOYEE(LAST_NAME);
No rows affected (0.001 seconds)
9/11    ALTER TABLE EMPLOYEE ADD CONSTRAINT EMP_COMPANY FOREIGN KEY (COMPANY)
REFERENCES COMPANY (COMPANY_ID);
No rows affected (0 seconds)
10/11   INSERT INTO EMPLOYEE (ID, FIRST_NAME, LAST_NAME, COMPANY) VALUES (234,
'William', 'Gates', 4);
1 row affected (0.001 seconds)
11/11   SELECT * FROM COMPANY,EMPLOYEE
WHERE EMPLOYEE.COMPANY = COMPANY.COMPANY_ID;
+-----+-----+-----+-----+-----+-----+
| COMPANY_ID | NAME | ID      | FIRST_NAME | LAST_NAME | COMPANY |
+-----+-----+-----+-----+-----+-----+
| 4      | Microsoft | 234    | William   | Gates    | 4      |
+-----+-----+-----+-----+-----+-----+
1 row selected (0.001 seconds)
0: jdbc:hsqldb:db-hypersonic>

```

save

Name

save — Save the current preferences

Synopsis

!save

Description

Save the current preferences.

Example of "save" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !save
```

Saving preferences to: /Users/mprudhom/.sqlline/sqlline.properties

0: jdbc:oracle:thin:@localhost:1521:mydb>

scan

Name

scan — Scan class path for JDBC drivers

Synopsis

!scan

Description

Scans all the jar files in the CLASSPATH for any JDBC drivers, and prints the class names of the drivers.

Example of

"scan" command

sqlline> !scan

35 driver classes found

Compliant Version Driver Class

no	4.0	COM.cloudscape.core.JDBCdriver
no	1.0	COM.cloudscape.core.RmiJdbcDriver
yes	7.1	COM.ibm.db2.jdbc.net.DB2Driver
yes	3.2	com.ddtek.jdbc.db2.DB2Driver
yes	3.2	com.ddtek.jdbc.informix.InformixDriver
yes	3.2	com.ddtek.jdbc.oracle.OracleDriver
yes	3.2	com.ddtek.jdbc.sqlserver.SQLServerDriver
yes	3.2	com.ddtek.jdbc.sybase.SybaseDriver
yes	1.0	com.ibm.db2.jcc.DB2Driver
yes	2.21	com.informix.jdbc.IfxDriver
no	0.2	com.internetcds.jdbc.tds.Driver
no	0.2	com.internetcds.jdbc.tds.SybaseDriver
yes	2.2715	com.jnetdirect.jsql.JSQLDriver
yes	3.2	com.merant.datadirect.jdbc.db2.DB2Driver
yes	3.2	com.merant.datadirect.jdbc.informix.InformixDriver
yes	3.2	com.merant.datadirect.jdbc.oracle.OracleDriver
yes	3.2	com.merant.datadirect.jdbc.sqlserver.SQLServerDriver
yes		
	3.2	com.merant.datadirect.jdbc.sybase.SybaseDriver
yes	2.2	com.microsoft.jdbc.sqlserver.SQLServerDriver
no	3.0	com.mysql.jdbc.Driver
no	3.0	com.mysql.jdbc.NonRegisteringDriver
yes	4.4	com.pointbase.jdbc.jdbcDriver
yes	4.4	com.pointbase.jdbc.jdbcEmbeddedDriver
yes	4.4	com.pointbase.jdbc.jdbcUniversalDriver

no 5.5 com.sybase.jdbc2.jdbc.SybDriver
yes 1.0 in.co.daffodil.db.jdbc.DaffodilDBDriver
no 2.0 interbase.interclient.Driver
no 0.5 net.sourceforge.jtds.jdbc.Driver
yes 1.0 oracle.jdbc.OracleDriver
yes 1.0 oracle.jdbc.driver.OracleDriver
no 3.26 org.enhydra.instantdb.jdbc.idbDriver
no 3.0 org.gjt.mm.mysql.Driver
no 1.7 org.hsqldb.jdbcDriver
no 7.3 org.postgresql.Driver
yes 0.9 org.sourceforge.jxdbccon.JXDBConDriver

sqlline>

script

Name

script — Save executed commands to a file

Synopsis

```
!script  
{filename}
```

Description

Start saving all commands entered to the specified file. Once scripting on, it can be finished by entering the script command again with no arguments. Saved scripts can be re-run using the run command.

Example of "script" command

```
0: jdbc:hsqldb:db-hypersonic> !script /tmp/mysession.script
```

Saving command script to "/tmp/mysession.script". Enter "script" with no arguments to stop it.

```
0: jdbc:hsqldb:db-hypersonic> !autocommit off
```

Autocommit status: false

```
0: jdbc:hsqldb:db-hypersonic> SELECT * FROM COMPANY;
```

```
+-----+-----+  
| COMPANY_ID | NAME |  
+-----+-----+  
| 1 | Apple |  
| 2 | Sun |  
| 3 | IBM |
```

| 4 | Microsoft |

+-----+-----+

4 rows selected (0.001 seconds)

0: jdbc:hsqldb:db-hypersonic> UPDATE COMPANY SET NAME='Apple, Inc.' WHERE NAME='Apple';

1 row affected (0.005 seconds)

0: jdbc:hsqldb:db-hypersonic> !commit

Commit complete

(0 seconds)

0: jdbc:hsqldb:db-hypersonic> !script

Script closed. Enter "run /tmp/mysession.script" to replay it.

0: jdbc:hsqldb:db-hypersonic>

set

Name

set — Set a preference

Synopsis

!set {preference} {value}

Description

Set the specified preference to the specified value. If autosave is on, then this will cause preferences to be immediately saved. Otherwise, changed setting can be saved for future SQLLine session eith the save command.

Example of "set" command

0: jdbc:hsqldb:db-hypersonic> !set color on

sql

Name

sql — Execute a SQL against a database

Synopsis

!sql {statement}

Description

Issue the specified SQL statement. This is equivalent to entering the statement by itself from the command line.

Example of "sql" command

```
0: jdbc:hsqldb:db-hypersonic> !sql DELETE FROM COMPANY;
```

```
4 rows affected (0.005 seconds)
```

```
0: jdbc:hsqldb:db-hypersonic>
```

```
tables
```

Name

tables — List all the tables in the database

Synopsis

```
!tables
```

Description

List all the tables in the database of the current connection.

Example of "tables" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !tables
```

```
+-----+-----+-----+-----+
| TABLE_CAT | TABLE_SCHEM | TABLE_NAME | TABLE_TYPE |
+-----+-----+-----+-----+
|          | MYDB          | COMPANY      | TABLE      |
|          | MYDB          | EMPLOYEE     | TABLE      |
+-----+-----+-----+-----+
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

```
verbose
```

Name

verbose — Enable verbose output

Synopsis

!verbose

Description

Enable verbose mode, which causes stack traces to be printed when errors occur, and enabled outputting of debug information.

Example of "verbose" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;
```

```
Error: ORA-00942: table or view does not exist (state=42000,code=942)
```

```
0:
```

```
jdbc:oracle:thin:@localhost:1521:mydb> !verbose
```

```
verbose: on
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;
```

```
Error: ORA-00942: table or view does not exist (state=42000,code=942)
```

```
java.sql.SQLException: ORA-00942: table or view does not exist
```

```
at oracle.jdbc.dbaccess.DBError.throwSQLException(DBError.java:180)
at oracle.jdbc.ttc7.TTIoer.processError(TTIoer.java:208)
at oracle.jdbc.ttc7.Oall7.receive(Oall7.java:543)
at oracle.jdbc.ttc7.TTC7Protocol.doOall7(TTC7Protocol.java:1451)
at oracle.jdbc.ttc7.TTC7Protocol.parseExecuteDescribe(TTC7Protocol.java:651)
at oracle.jdbc.driver.OracleStatement.doExecuteQuery(OracleStatement.java:2110)
at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:2324)
at oracle.jdbc.driver.OracleStatement.execute(OracleStatement.java:909)
at sqlline.SqlLine$Commands.sql(SqlLine.java:3183)
at sqlline.SqlLine.dispatch(SqlLine.java:771)
at sqlline.SqlLine.begin(SqlLine.java:634)
at sqlline.SqlLine.main(SqlLine.java:332)
```

```
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

Parameter Reference

autocommit

autosave

color

fastconnect

force

headerinterval

historyfile

incremental

isolation
maxcolumnwidth
maxwidth
numberformat
outputformat
rowlimit
showheader
shownestederrs
showtime
showwarnings
silent
trimscripts
verbose
autocommit

If true, then new connections will have autocommit set, otherwise, transactions will need to be explicitly committed or rolled back. Defaults to true. To change the autocommit status for a connection that is already open and active, use the autocommit command instead.

autosave

When set to true, any changes to preferences using the set command will cause the preferences to be saved. Otherwise, preferences will need to be explicitly saved using the save command. Defaults to false.

color

If true, then output to the terminal will use color for a more pleasing visual experience. Requires that the terminal support ANSI control codes (most do). Defaults to false.

fastconnect

When false, any new connection will cause SQLLine to access information about the available tables and columns in order to provide them as candidates for tab-completion. This can be a very slow operation for some databases, do by default it is off. Table and column information can always be explicitly retrieved using the rehash command.

force

When set to false, any failures during the execution of the run or record commands will cause execution to abort, preventing the execution of subsequent commands. When set to true, errors will be displayed but otherwise ignored. Defaults to false.

headerinterval

The interval between which the column headers will be redisplayed when using the "table" outputformat. Defaults to 100.

historyfile

The file to which SQLLine will save a record of all the commands issued. Defaults to HOME/sqlline/history on Windows, and HOME/.sqlline/history on all other platforms.

incremental

When

set to false, the entire result set is fetched and buffered before being displayed, yielding optimal display column sizing. When set to true, result rows are displayed immediately as they are fetched, yielding lower latency and memory usage at the price of extra display column padding. Defaults to false.

isolation

The default transaction isolation that will be used for new connections. To change the isolation level of the currently active connection, use the isolation command instead.

maxcolumnwidth

The maximum column width to display for each column before truncating data when using the "table" outputformat. Defaults to 15.

maxwidth

The maximum width to display before truncating data when using the "table" outputformat. Defaults to attempting to query the terminal for the current width, falls back to 80.

numberformat

The format for how numeric values are displayed. Setting to default causes numeric values to be fetched and rendered via ResultSet.getString.

Any other setting results in fetch via ResultSet.getObject and rendering via java.text.DecimalFormat. For example, the setting "0.###E0" yields scientific notation with up to three fractional digits.

outputformat

The format for how results are displayed. For details, see the information on the outputformat command.

rowlimit

The maximum number of rows to fetch per query. Defaults to 0, which is interpreted as fetching all rows.

showheader

If true, display the names of the columns when displaying results. Defaults to true.

shownestederrs

If true, display any nested errors that are reported on the connection after issuing any database commands. Defaults to false, meaning only the topmost error is displayed.

showtime

If true, display execution time for database commands when in verbose mode. Defaults to true.

showwarnings

If true, display any warnings that are reported on the connection after issuing any database commands. Defaults to true.

silent

If true, then reduce the amount of informational messages displayed. Useful for redirecting a sqlline command to a file for later parsing. Defaults to false.

trimscripts

If true, then trim leading and trailing whitespace from lines as they are processed in scripts; otherwise, preserve whitespace. Defaults to true.

verbose

If true, then print out the entire java stack trace whenever an error occurs, as well as displaying debugging information. Defaults to false.

JDBC Driver Support

Project Information

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1031989713_1591844932.81/0/sqlline-1-3-0-sources-jar/sqlline/manual.txt

1.246 datanucleus-rdbms 4.1.19

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1.248 datanucleus-api-jdo 4.2.4

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1.250 commons-configuration 2.1.1

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1.256 jsp 2.0.public_draft

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```

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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jar/jvmMain/okio/SegmentedByteString.kt

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*
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```
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jar/commonMain/okio/SegmentPool.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/ForwardingSource.kt
*
 /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/Buffer.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/InflaterSource.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/RealBufferedSource.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/Sink.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/commonMain/okio/Segment.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/BufferedSink.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/AsyncTimeout.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/JvmOkio.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/GzipSink.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/ForwardingSink.kt
*
 /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/RealBufferedSink.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/Source.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
jar/jvmMain/okio/BufferedSource.kt
* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-
```

jar/jvmMain/okio/GzipSource.kt

* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-

jar/jvmMain/okio/DeflaterSink.kt

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* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/-

DeprecatedUtf8.kt

* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/-

DeprecatedOkio.kt

*

/opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-

jar/commonMain/okio/PeekSource.kt

* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/-

DeprecatedUpgrade.kt

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- * /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/commonMain/okio/-Platform.kt
- *
- /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/commonMain/okio/internal/ByteString.kt
- * /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/commonMain/okio/-Util.kt
- * /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/-Platform.kt

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The specification of DOM Level 2's various parts is at:

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113/>

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>

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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-
jar/com/google/errorprone/annotations/RequiredModifiers.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/concurrent/UnlockMethod.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/concurrent/LockMethod.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/DoNotMock.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/FormatMethod.java

1.263 jersey 2.25.1

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jar/org/codehaus/enunciate/modules/jersey/config/JerseyRuleSet.java
* /opt/ws_local/PERMITS_SQL/1066754946_1595254330.39/0/enunciate-jersey-1-19-sources-
jar/org/codehaus/enunciate/modules/jersey/JerseyValidator.java
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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/annotation/MapMethodProcessor.java

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jar/org/springframework/http/converter/xml/SourceHttpMessageConverter.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/support/HttpAccessor.java
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jar/org/springframework/web/server/handler/WebHandlerDecorator.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/client/MessageBodyClientHttpResponseWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/annotation/CrossOrigin.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/support/GenericWebApplicationContext.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/CacheControl.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/ClientHttpRequestInitializer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/request/ServletRequestAttributes.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/reactive/JettyClientHttpConnector.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/support/BaseCodecConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/ContextCleanupListener.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/server/reactive/ServerHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/FormHttpMessageReader.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/DecoderHttpMessageReader.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/request/async/DeferredResult.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/util/WebUtils.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/util/pattern/PathPattern.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/FormHttpMessageWriter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/ClientCodecConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/util/UriTemplate.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/server/adapter/ForwardedHeaderTransformer.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/ContentDisposition.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/request/async/WebAsyncManager.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/converter/ByteArrayHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/server/handler/DefaultWebFilterChain.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/OkHttp3ClientHttpRequestFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/support/DefaultClientCodecConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/server/ServerWebExchangeDecorator.java

*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/annotation/ModelFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/UriUtils.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/filter/reactive/ServerWebExchangeContextFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/filter/reactive/ForwardedHeaderFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/ServerCodecConfigurer.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/protobuf/ProtobufHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/UrlBasedCorsConfigurationSource.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/PathContainer.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/DefaultCorsProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/ResourceHttpMessageReader.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/adapters/DefaultServerWebExchange.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/reactive/CorsWebFilter.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ChannelSendOperator.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
 *
 /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/UriBuilder.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/BufferedImageHttpMessageConverter.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/ServletContextScope.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/multipart/commons/CommonsMultipartFile.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/filter/CorsFilter.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/InterceptingClientHttpRequest.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
 *
 /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/support/InvocableHandlerMethod.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/RequestHandledEvent.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/client/HttpServerErrorException.java
 *
 /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/cbor/MappingJackson2CborHttpMessageConverter.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/UndertowServerHttpRequest.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/ReadOnlyHttpHeaders.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/MediaTypeFactory.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/xml/MappingJackson2XmlHttpMessageConverter.java
 *

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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/cbor/Jackson2CborDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/client/RestOperationsExtensions.kt
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/reactive/ClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/support/ClientDefaultCodecsImpl.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/RequestEntity.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/ResourceHttpMessageWriter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/support/ServerDefaultCodecsImpl.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/server/reactive/AbstractListenerWriteProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/SimpleClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/util/pattern/PathPatternRouteMatcher.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/client/RestClientResponseException.java
No license file was found, but licenses were detected in source scan.

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```

# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
# MIME type (lowercased) Extensions
# =====
#

```

application/1d-interleaved-parityfec
application/3gpdash-qoe-report+xml
application/3gpp-ims+xml
application/a2l
application/activemessage
application/alto-costmap+json
application/alto-costmapfilter+json
application/alto-directory+json
application/alto-endpointcost+json
application/alto-endpointcostparams+json
application/alto-endpointprop+json
application/alto-endpointpropparams+json
application/alto-error+json
application/alto-networkmap+json
application/alto-networkmapfilter+json
application/aml
application/andrew-inset ez
application/applefile
application/applixware aw
application/atf
application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
application/atomdeleted+xml
application/atomicmail
application/atomsvc+xml atomsvc
application/atxml
application/auth-policy+xml
application/bacnet-xdd+zip
application/batch-smtp
application/beep+xml
application/calendar+json
application/calendar+xml

application/call-completion
application/cals-1840
application/cbor
application/ccmp+xml
application/ccxml+xml ccxml
application/cdfx+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmiq
application/cdni
application/cea
application/cea-2018+xml

application/cellml+xml
application/cfw
application/cms
application/cnrx+xml
application/coap-group+json
application/commonground
application/conference-info+xml
application/cpl+xml
application/csrattrs
application/csta+xml
application/cstadata+xml
application/csvm+json
application/cu-seeme cu
application/cybercash
application/dash+xml
application/dashdelta
application/davmount+xml davmount
application/dca-rft
application/dcd
application/dec-dx
application/dialog-info+xml
application/dicom
application/dii
application/dit
application/dns
application/docbook+xml dbk

application/dskpp+xml
application/dssc+der dssc
application/dssc+xml xdssc
application/dvcs
application/ecmascript ecma
application/edi-consent
application/edi-x12
application/edifact
application/efi
application/emergencycalldata.comment+xml
application/emergencycalldata.deviceinfo+xml
application/emergencycalldata.providerinfo+xml
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application/emergencycalldata.subscriberinfo+xml
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application/emotionml+xml
application/encaprtp
application/epp+xml
application/epub+zip epub
application/eshop
application/example

application/exi exi
application/fastinfoset
application/fastsoap
application/fdt+xml
application/fits
application/font-sfnt
application/font-tdpfr pfr
application/font-woff woff
application/framework-attributes+xml
application/geo+json
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
application/gzip

application/h224
application/held+xml
application/http
application/hyperstudio stk
application/ibe-key-request+xml
application/ibe-pkg-reply+xml
application/ibe-pp-data
application/iges
application/im-iscomposing+xml
application/index
application/index.cmd
application/index.obj
application/index.response
application/index.vnd
application/inkml+xml ink inkml
application/iotp
application/ipfix ipfix
application/ipp
application/isup
application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
application/jose
application/jose+json
application/jrd+json
application/json json
application/json-patch+json
application/json-seq
application/jsonml+json jsonml
application/jwk+json
application/jwk-set+json

```
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
#
  application/load-control+xml
application/lost+xml  lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40  hqx
application/mac-compactpro  cpt
# application/macwriteii
application/mads+xml  mads
application/marc  mrc
application/marcxml+xml  mrcx
application/mathematica  ma nb mb
application/mathml+xml  mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox  mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml  mscml
# application/merge-patch+json
application/metalink+xml  metalink
application/metalink4+xml  meta4
application/mets+xml  mets
#
  application/mf4
# application/mikey
application/mods+xml  mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
```

application/mp21 mp21 mp21
application/mp4 mp4s
application/mpeg4-generic
application/mpeg4-iod
application/mpeg4-iod-xmt
application/mrb-consumer+xml
application/mrb-publish+xml
application/msc-ivr+xml
application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
application/nasdata
application/news-checkgroups
application/news-groupinfo
application/news-transmission
application/nlsml+xml
application/nss
application/ocsp-request
application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
application/odx
application/oebps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc
onetoc2 onetmp onepkg
application/oxps oxps
application/p2p-overlay+xml
application/parityfec
application/patch-ops-error+xml xer
application/pdf pdf
application/pdx
application/pgp-encrypted pgp
application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
application/pidf+xml
application/pidf-diff+xml
application/pkcs10 p10
application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8
application/pkix-attr-cert ac
application/pkix-cert cer
application/pkix-crl crl
application/pkix-pkipath pkipath

application/pkixcmp pki
application/pls+xml pls
application/poc-settings+xml
application/postscript ai eps ps
application/ppsp-tracker+json
application/problem+json
application/problem+xml
application/provenance+xml
application/prs.alvestrand.titrax-sheet
application/prs.cww cww
application/prs.hpub+zip

application/prs.nprend
application/prs.plucker
application/prs.rdf+xml-crypt
application/prs.xsf+xml
application/pskc+xml pskcxml
application/qsig
application/raptorfec
application/rdap+json
application/rdf+xml rdf
application/reginfo+xml rif
application/relax-ng-compact-syntax rnc
application/remote-printing
application/reputon+json
application/resource-lists+xml rl
application/resource-lists-diff+xml rld
application/rfc+xml
application/riscos
application/rlmi+xml
application/rls-services+xml rs
application/rpki-ghostbusters gbr
application/rpki-manifest mft
application/rpki-roa roa
application/rpki-updown
application/rsd+xml rsd
application/rss+xml rss
application/rtf rtf
application/rtploopback
application/rtx
application/samlassertion+xml
application/samlmetadata+xml
application/sbml+xml sbml
application/scaip+xml
application/scim+json
application/scvp-cv-request scq
application/scvp-cv-response scs
application/scvp-vp-request spq

application/scvp-vp-response spp
application/sdp sdp

application/sep+xml
application/sep-exi
application/session-info
application/set-payment
application/set-payment-initiation setpay
application/set-registration
application/set-registration-initiation setreg
application/sgml
application/sgml-open-catalog
application/shf+xml shf
application/sieve
application/simple-filter+xml
application/simple-message-summary
application/simplesymbolcontainer
application/slate
application/smil
application/smil+xml smi smil
application/smpite336m
application/soap+fastinfoset
application/soap+xml
application/sparql-query rq
application/sparql-results+xml srx
application/spirits-event+xml
application/sql
application/srgs gram
application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml
application/tamp-apex-update
application/tamp-apex-update-confirm
application/tamp-community-update

application/tamp-community-update-confirm
application/tamp-error
application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
application/timestamp-query
application/timestamp-reply

application/timestamped-data tsd
application/ttml+xml
application/tve-trigger
application/ulpfec
application/urc-grpsheet+xml
application/urc-ressheet+xml
application/urc-targetdesc+xml
application/urc-uisocketdesc+xml
application/vcard+json
application/vcard+xml
application/vemmi
application/vividence.scriptfile
application/vnd.3gpp-prose+xml
application/vnd.3gpp-prose-pc3ch+xml
application/vnd.3gpp.access-transfer-events+xml
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large plb
application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb

application/vnd.3gpp.sms
application/vnd.3gpp.sms+xml
application/vnd.3gpp.srvcc-ext+xml
application/vnd.3gpp.srvcc-info+xml
application/vnd.3gpp.state-and-event-info+xml
application/vnd.3gpp.ussd+xml
application/vnd.3gpp2.bcsmcinfo+xml
application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap tcap
application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes pwn
application/vnd.accpac.simply.aso aso
application/vnd.accpac.simply.imp imp
application/vnd.acucobol acu
application/vnd.acucorp atc acutc
application/vnd.adobe.air-application-installer-package+zip air
application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt fcdt
application/vnd.adobe.fxp fxp fxpl
application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml xdp
application/vnd.adobe.xfdf xfdf
application/vnd.aether.imp
application/vnd.ah-barcode
application/vnd.ahead.space ahead
application/vnd.airzip.filesecure.azf azf
application/vnd.airzip.filesecure.azs azs

application/vnd.amazon.ebook azw

application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc acc
application/vnd.amiga.ami ami
application/vnd.amundsen.maze+xml
application/vnd.android.package-archive apk
application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component atx
application/vnd.apache.thrift.binary
application/vnd.apache.thrift.compact
application/vnd.apache.thrift.json
application/vnd.api+json
application/vnd.apple.installer+xml mpkg
application/vnd.apple.mpegurl m3u8
application/vnd.arastra.swi
application/vnd.aristanetworks.swi swi
application/vnd.artsquare
application/vnd.astraea-software.iota iota
application/vnd.audiograph aep
application/vnd.autopackage
application/vnd.avistar+xml
application/vnd.balsamiq.bmml+xml
application/vnd.balsamiq.bmpr

application/vnd.bekitzur-stech+json
application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
application/vnd.bluetooth.ep.oob
application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep
application/vnd.cab-jscript
application/vnd.canon-cpdl
application/vnd.canon-lips
application/vnd.cendio.thinlinc.clientconf
application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
application/vnd.cirpack.isdn-ext
application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u

application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
application/vnd.coffeescript
application/vnd.collection+json
application/vnd.collection.doc+json
application/vnd.collection.next+json

application/vnd.comicbook+zip
application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmsg
application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
application/vnd.ctct.ws+xml
application/vnd.cups-pdf
application/vnd.cups-postscript
application/vnd.cups-ppd ppd
application/vnd.cups-raster
application/vnd.cups-raw
application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
application/vnd.cyan.dean.root+xml
application/vnd.cybank
application/vnd.dart dart
application/vnd.data-vision.rdz rdz
application/vnd.debian.binary-package
application/vnd.dece.data uvf uvvf
uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece.unspecified uvx uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
application/vnd.desmume.movie
application/vnd.dir-bi.plate-dl-nosuffix
application/vnd.dm.delegation+xml
application/vnd.dna dna
application/vnd.document+json
application/vnd.dolby.mlp mlp
application/vnd.dolby.mobile.1
application/vnd.dolby.mobile.2

application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
application/vnd.drive+json
application/vnd.ds-keypoint kpxx
application/vnd.dtg.local
application/vnd.dtg.local.flash
application/vnd.dtg.local.html
application/vnd.dvb.ait ait
application/vnd.dvb.dvbj
application/vnd.dvb.esgcontainer
application/vnd.dvb.ipdcdftnotifaccess
application/vnd.dvb.ipdcesgaccess
application/vnd.dvb.ipdcesgaccess2
application/vnd.dvb.ipdcesgpdd
application/vnd.dvb.ipdcroaming

application/vnd.dvb.iptv.alfec-base
application/vnd.dvb.iptv.alfec-enhancement
application/vnd.dvb.notif-aggregate-root+xml
application/vnd.dvb.notif-container+xml
application/vnd.dvb.notif-generic+xml
application/vnd.dvb.notif-ia-msglist+xml
application/vnd.dvb.notif-ia-registration-request+xml
application/vnd.dvb.notif-ia-registration-response+xml
application/vnd.dvb.notif-init+xml
application/vnd.dvb.pfr
application/vnd.dvb.service svc
application/vnd.dxr
application/vnd.dynageo geo
application/vnd.dzr
application/vnd.easykaraoke.cdgdownload
application/vnd.ecdis-update
application/vnd.ecowin.chart mag
application/vnd.ecowin.filerequest
application/vnd.ecowin.fileupdate
application/vnd.ecowin.series
application/vnd.ecowin.seriesrequest
application/vnd.ecowin.seriesupdate
application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
application/vnd.enphase.envoy
application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf

```
#
application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
#
application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
# application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
# application/vnd.ffmpeg
# application/vnd.filmit.zfc
# application/vnd.fints
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
# application/vnd.font-fontforge-sfd
application/vnd.frameMaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
```

application/vnd.fujitsu.oasysgp fg5
application/vnd.fujitsu.oasysprs bh2
application/vnd.fujixerox.art-ex
application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
application/vnd.fujixerox.docuworks.binder xbd

application/vnd.fujixerox.docuworks.container
application/vnd.fujixerox.hbpl
application/vnd.fut-misnet
application/vnd.fuzzysheet fzs
application/vnd.genomatix.tuxedo txd
application/vnd.geo+json
application/vnd.geocube+xml
application/vnd.geogebra.file ggb
application/vnd.geogebra.tool ggt
application/vnd.geometry-explorer gex gre
application/vnd.geonext gxt
application/vnd.geoplan g2w
application/vnd.geospace g3w
application/vnd.gerber
application/vnd.globalplatform.card-content-mgt
application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx gmx
application/vnd.google-earth.kml+xml kml
application/vnd.google-earth.kmz kmz
application/vnd.gov.sk.e-form+xml
application/vnd.gov.sk.e-form+zip
application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq gqf gqs
application/vnd.gridmp
application/vnd.groove-account gac
application/vnd.groove-help ghf
application/vnd.groove-identity-message gim
application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg

application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci hbci
application/vnd.hcl-bireports
application/vnd.hdt
application/vnd.heroku+json
application/vnd.hhe.lesson-player les

application/vnd.hp-hpgl hpgl
application/vnd.hp-hpid hpid
application/vnd.hp-hps hps
application/vnd.hp-jlt jlt
application/vnd.hp-pcl pcl
application/vnd.hp-pclxl pclxl
application/vnd.httpphone
application/vnd.hydrostatix.sof-data sfd-hdstx
application/vnd.hyperdrive+json
application/vnd.hzn-3d-crossword
application/vnd.ibm.afplinedata
application/vnd.ibm.electronic-media
application/vnd.ibm.minipay mpy
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm
application/vnd.ibm.secure-container sc
application/vnd.iccprofile icc
icm
application/vnd.ieee.1905
application/vnd.igloader igl
application/vnd.immervision-ivp ivp
application/vnd.immervision-ivu ivu
application/vnd.ims.imsccv1p1
application/vnd.ims.imsccv1p2
application/vnd.ims.imsccv1p3
application/vnd.ims.lis.v2.result+json
application/vnd.ims.lti.v2.toolconsumerprofile+json
application/vnd.ims.lti.v2.toolproxy+json
application/vnd.ims.lti.v2.toolproxy.id+json
application/vnd.ims.lti.v2.toolsettings+json
application/vnd.ims.lti.v2.toolsettings.simple+json
application/vnd.informedcontrol.rms+xml
application/vnd.informix-visionary
application/vnd.infotech.project
application/vnd.infotech.project+xml
application/vnd.innopath.wamp.notification
application/vnd.insors.igm igm
application/vnd.intercon.formnet xpw xpx
application/vnd.intergeo i2g
application/vnd.intertrust.digibox
application/vnd.intertrust.nncp
application/vnd.intu.qbo qbo
application/vnd.intu.qfx qfx

application/vnd.iptc.g2.catalogitem+xml
application/vnd.iptc.g2.conceptitem+xml
application/vnd.iptc.g2.knowledgeitem+xml
application/vnd.iptc.g2.newsitem+xml

application/vnd.iptc.g2.newsmesssage+xml
application/vnd.iptc.g2.packageitem+xml
application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile rcprofile
application/vnd.irepository.package+xml irp
application/vnd.is-xpr xpr
application/vnd.isac.fcs fcs
application/vnd.jam jam
application/vnd.japannet-directory-service
application/vnd.japannet-jpnstore-wakeup
application/vnd.japannet-payment-wakeup
application/vnd.japannet-registration
application/vnd.japannet-registration-wakeup
application/vnd.japannet-setstore-wakeup
application/vnd.japannet-verification
application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms rms
application/vnd.jisp jisp
application/vnd.joost.joda-archive joda
application/vnd.jsk.isdn-ngn
application/vnd.kahootz ktz
ktr
application/vnd.kde.karbon karbon
application/vnd.kde.kchart chrt
application/vnd.kde.kformula kfo
application/vnd.kde.kivio flw
application/vnd.kde.kontour kon
application/vnd.kde.kpresenter kpr kpt
application/vnd.kde.kspread ksp
application/vnd.kde.kword kwd kwt
application/vnd.kenameaapp htke
application/vnd.kidspiration kia
application/vnd.kinar kne knp
application/vnd.koan skp skd skt skm
application/vnd.kodak-descriptor sse
application/vnd.las.las+xml lasxml
application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3 123
application/vnd.lotus-approach apr
application/vnd.lotus-freelance pre
application/vnd.lotus-notes nsf
application/vnd.lotus-organizer org
application/vnd.lotus-screencam scm
application/vnd.lotus-wordpro lwp
application/vnd.macports.portpkg portpkg
application/vnd.mapbox-vector-tile

```
# application/vnd.marlin.drm.actiontoken+xml
#
  application/vnd.marlin.drm.conftoken+xml
# application/vnd.marlin.drm.license+xml
# application/vnd.marlin.drm.mdcf
# application/vnd.mason+json
# application/vnd.maxmind.maxmind-db
application/vnd.mcd mcd
application/vnd.medcalldata mc1
application/vnd.mediastation.cdkey cdkey
# application/vnd.meridian-slideshow
application/vnd.mfer mwf
application/vnd.mfmp mfm
# application/vnd.micro+json
application/vnd.micrografx.flo flo
application/vnd.micrografx.igx igx
# application/vnd.microsoft.portable-executable
# application/vnd.miele+json
application/vnd.mif mif
# application/vnd.minisoft-hp3000-save
# application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf daf
application/vnd.mobius.dis dis
application/vnd.mobius.mbk mbk
application/vnd.mobius.mqy mqy
application/vnd.mobius.msl msl
application/vnd.mobius.plc plc
application/vnd.mobius.txf txf
application/vnd.mophun.application mpn
application/vnd.mophun.certificate mpc
#
  application/vnd.motorola.flexsuite
# application/vnd.motorola.flexsuite.adi
# application/vnd.motorola.flexsuite.fis
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml xul
# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12 xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
```

application/vnd.ms-excel.sheet.macroenabled.12 xlsx
application/vnd.ms-excel.template.macroenabled.12 xltn
application/vnd.ms-fontobject eot
application/vnd.ms-htmlhelp chm
application/vnd.ms-ims ims
application/vnd.ms-lrm lrm
application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme thmx

application/vnd.ms-opentype
application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat cat
application/vnd.ms-pki.stl stl
application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12 ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12 pptm
application/vnd.ms-powerpoint.slide.macroenabled.12 sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12 ppsm
application/vnd.ms-powerpoint.template.macroenabled.12 potm
application/vnd.ms-printdevicecapabilities+xml
application/vnd.ms-printing.printticket+xml
application/vnd.ms-printschematicket+xml
application/vnd.ms-project mpp mpt
application/vnd.ms-tnef
application/vnd.ms-windows.devicepairing
application/vnd.ms-windows.nwprinting.oob
application/vnd.ms-windows.printerpairing
application/vnd.ms-windows.wsd.oob
application/vnd.ms-wmdrm.lic-chlg-req
application/vnd.ms-wmdrm.lic-resp

application/vnd.ms-wmdrm.meter-chlg-req
application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works wps wks wcm wdb
application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
application/vnd.msa-disk-image
application/vnd.mseq mseq
application/vnd.msign
application/vnd.multiad.creator
application/vnd.multiad.creator.cif
application/vnd.music-niff
application/vnd.musician mus
application/vnd.muvee.style msty
application/vnd.myfnc taglet

application/vnd.ncd.control
application/vnd.ncd.reference
application/vnd.nervana
application/vnd.netfpx
application/vnd.neurolanguage.nlu nlu
application/vnd.nintendo.nitro.rom
application/vnd.nintendo.snes.rom
application/vnd.nitf nitf nitf
application/vnd.noblenet-directory nnd
application/vnd.noblenet-sealer nns
application/vnd.noblenet-web nnw
application/vnd.nokia.catalogs

application/vnd.nokia.conml+wbxml
application/vnd.nokia.conml+xml
application/vnd.nokia.ipvtv.config+xml
application/vnd.nokia.isds-radio-presets
application/vnd.nokia.landmark+wbxml
application/vnd.nokia.landmark+xml
application/vnd.nokia.landmarkcollection+xml
application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data ngdat
application/vnd.nokia.n-gage.symbian.install n-gage
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application/whoispp-response

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application/wordperfect5.1
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application/wspolicy+xml wspolicy
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application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
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image/jpx
image/ktx ktx
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image/sgi sgi
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image/vnd.airzip.accelerator.azv
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image/wmf
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fhc fh4 fh5 fh7
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image/x-xpixmap xpm
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message/external-body
message/feedback-report
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message/global-disposition-notification
message/global-headers
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message/news
message/partial
message/rfc822 eml mime
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message/sip
message/sipfrag
message/tracking-status
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model/mesh msh mesh silo
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# model/x3d+fastinfoset
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# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
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# text/csv-schema
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# text/dns
# text/ecascript
# text/encaprtpt
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
text/html html htm
# text/javascript
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text/prs.fallenstein.rst
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text/turtle ttl
text/ulpfec
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text/vnd.curl.dcurl dcurl
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text/vnd.graphviz gv
text/vnd.in3d.3dml 3dml
text/vnd.in3d.spot spot

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# text/vnd.wap.si
# text/vnd.wap.sl
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text/vnd.wap.wmlscript wmls
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text/x-fortran f for f77 f90
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# video/3gpp-tt
video/3gpp2 3g2
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# video/bt656
# video/celb
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# video/encaprtsp
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# video/h264-svc
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# video/jpeg2000
video/jpm jpm jpgm
video/mj2 mj2 mjp2
# video/mp1s
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video/mp2p
video/mp2t
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video/mp4v-es
video/mpeg mpeg mpg mpe m1v m2v
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video/vnd.radgamettools.smacker
video/vnd.sealed.mpeg1
video/vnd.sealed.mpeg4
video/vnd.sealed.swf
video/vnd.sealedmedia.softseal.mov
video/vnd.uvu.mp4 uvu uvvu
video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
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video/x-m4v m4v
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video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv
video/x-ms-wmx wmx
video/x-ms-wvx wvx
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video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found

in path(s):

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/mime.types

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/ServerHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/HttpMediaTypeException.java
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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/ClientHttpRequestExecution.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/RequestScope.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/ReactiveHttpOutputMessage.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/SessionScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/GetMapping.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/DeleteMapping.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/SessionScope.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/filter/CompositeFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/ModelAttribute.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/CorsConfigurationSource.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/reactive/CorsConfigurationSource.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/SessionAttribute.java

*

/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/WebAppRootListener.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/multipart/support/MissingServletRequestPartException.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/FacesWebRequest.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/ReactiveHttpInputMessage.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/WebApplicationContext.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/HttpRequestHandler.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/ClientHttpRequestFactory.java

*

/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/PutMapping.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/session/WebSessionIdResolver.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/WebHandler.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/WebExceptionHandler.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/RequestAttribute.java

*

/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/CookieValue.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/PostMapping.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/support/WebBindingInitializer.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-

jar/org/springframework/web/context/annotation/ApplicationScope.java
*
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/annotation/PatchMapping.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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jar/org/springframework/http/client/AbstractClientHttpResponse.java
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jar/org/springframework/web/client/ResourceAccessException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/MediaTypeEditor.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/annotation/InitBinder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/support/SimpleSessionStatus.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/util/IntrospectorCleanupListener.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
*
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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/jsf/FacesContextUtils.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/ClientHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
*

/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/AbstractClientHttpRequest.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/HandlerMethod.java

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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/ResponseCookie.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/HierarchicalUriComponents.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/MediaTypeNotSupportedStatusException.java

* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/client/DefaultResponseErrorHandler.java

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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/support/BaseDefaultCodecs.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/FormHttpMessageConverter.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/multipart/MultipartHttpMessageReader.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/accept/ContentNegotiationManager.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/reactive/CorsUtils.java
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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/json/AbstractJackson2Decoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/reactive/ReactorClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/AbstractServerHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/HttpHeaders.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/client/RestClientException.java
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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/ServerSentEventHttpMessageWriter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/json/Jackson2CodecSupport.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/reactive/JettyClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/ClientHttpResponse.java
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/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/DefaultPathContainer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/CorsUtils.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/adapters/HttpWebHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-

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jar/org/springframework/http/codec/ServerSentEventHttpMessageReader.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/filter/ShallowEtagHeaderFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/server/MethodNotAllowedException.java
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jar/org/springframework/http/codec/json/Jackson2Tokenizer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ReactorServerHttpResponse.java
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/**

* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method

does not automatically create a session. See { @link WebSession }

* for more details.

*/

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- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientInterceptor.java
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- /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/AbstractBufferingAsyncClientHttpRequest.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/MethodArgumentNotValidException.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/EscapedErrors.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/json/GsonFactoryBean.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/support/WebArgumentResolver.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/OkHttp3ClientHttpResponse.java
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- /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerProxyFactoryBean.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/filter/DelegatingFilterProxy.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/ServletContextAttributeFactoryBean.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/request/async/TimeoutCallableProcessingInterceptor.java
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- /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/method/annotation/MethodArgumentTypeMismatchException.java
- * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-

jar/org/springframework/web/bind/support/SessionAttributeStore.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
 jar/org/springframework/remoting/caucho/HessianClientInterceptor.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
 jar/org/springframework/web/server/i18n/LocaleContextResolver.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/SslInfo.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/jaxws/LocalJaxWsServiceFactory.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/DefaultServerWebExchangeBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/filter/RelativeRedirectResponseWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ServerHttpResponseDecorator.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/converter/protobuf/ExtensionRegistryInitializer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/TomcatHeadersAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/server/adapters/AbstractReactiveWebInitializer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-

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jar/org/springframework/http/InvalidMediaTypeException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/ServletContainerInitializer.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/server/reactive/Handler.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/annotation/ResponseBody.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/client/ResponseErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/server/adapters/HandlerMethod.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/annotation/RequestCookie.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/codec/LoggingCodecSupport.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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*
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/support/XmlWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/reactive/ClientHttpResponseDecorator.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-

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jar/org/springframework/http/client/reactive/ClientHttpRequestDecorator.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
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jar/org/springframework/web/client/AsyncRestTemplate.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/reactive/ReactorClientHttpConnector.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/InterceptingAsyncClientHttpRequestFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/Netty4ClientHttpRequestFactory.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/annotation/RequestMethod.java
*
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jar/org/springframework/web/server/WebFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/HttpMessage.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/multipart/MultipartResolver.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/converter/HttpMessageNotWritableException.java
```

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/converter/HttpMessageConversionException.java
*
/opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/request/RequestContextListener.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/util/HttpSessionMutexListener.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/server/WebFilterChain.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/bind/annotation/SessionAttributes.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
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1.267 spring-jcl 5.2.5.RELEASE

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1.268 spring-expression 5.2.5.RELEASE

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/opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/EvaluationException.java
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- * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/OpMinus.java
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- * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
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 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/Indexer.java
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 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/InlineList.java
 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/Ternary.java
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 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/TypeReference.java
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 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/VariableReference.java
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 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/OpAnd.java
 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/ast/Identifier.java
 * /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-

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jar/org/springframework/expression/spel/ast/IntLiteral.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/CompiledExpression.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java

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1.269 spring-beans 5.2.5.RELEASE

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```

Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/AbstractPropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/annotation/Required.java
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/support/ManagedArray.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/support/PropertyComparator.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
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/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/PropertyAccessException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
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jar/org/springframework/beans/support/PagedListHolder.java
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/NotWritablePropertyException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/xml/XmlBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/BeanInstantiationException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/MethodInvocationException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-

jar/org/springframework/beans/factory/config/NamedBeanHolder.java
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/ObjectProvider.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/PropertyMatches.java
*
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/PropertyValues.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/TypeMismatchException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/MutablePropertyValues.java
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/InvalidPropertyException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/annotation/QualifierAnnotationAutowireCandidateResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/annotation/RequiredAnnotationBeanPostProcessor.java
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jar/org/springframework/beans/BeanWrapperImpl.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/support/ManagedSet.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/PropertyAccessorFactory.java

*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/propertyeditors/PathEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/PropertyEditorRegistrySupport.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/Aware.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/support/AutowiredCandidateResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/support/ManagedMap.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/PropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/propertyeditors/URIEditor.java
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```

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/SimpleTypeConverter.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/ExtendedBeanInfoFactory.java
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/BeanInfoFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/NamedBean.java
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jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/Scope.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/support/ResourceEditorRegistrar.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/FileEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/BeanNameAware.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/NullValueInNestedPathException.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/BeanInitializationException.java
*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/URLEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/propertyeditors/ReaderEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/config/BeanPostProcessor.java

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/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/PropertyValue.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/CachedIntrospectionResults.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/config/YamlProcessor.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java

*
/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/config/AutowiredCapableBeanFactory.java

* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/BeanMetadataElement.java

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-

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jar/org/springframework/beans/factory/support/AbstractBeanDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
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/opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/support/AutowiredUtils.java
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jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
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1.270 spring-framework 5.2.5.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/SystemPropertyUtils.java
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jar/org/springframework/core/AttributeAccessorSupport.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/comparator/InvertibleComparator.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/backoff/FixedBackOff.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/xml/XMLEventStreamWriter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/NestedCheckedException.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/CompositeIterator.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/NestedRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/xml/DomContentHandler.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/convert/support/ByteBufferConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/io/support/ResourcePropertySource.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/KotlinDetector.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
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 * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/VfsResource.java
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 * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/concurrent/SuccessCallback.java
 * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/concurrent/ListenableFuture.java
 * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/env/EnumerablePropertySource.java
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 * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/comparator/CompoundComparator.java
 * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/codec/Hints.java
 * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/lang/UsesJava8.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
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*
/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/filter/TypeFilter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/objenesis/SpringObjenesis.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/env/CommandLineArgs.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/convert/support/ConfigurableConversionService.java
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jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/env/MapPropertySource.java
*
/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
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jar/org/springframework/util/xml/StaxStreamHandler.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
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jar/org/springframework/util/ExceptionTypeFilter.java
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jar/org/springframework/cglib/SpringCglibInfo.java
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jar/org/springframework/asm/ClassReader.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/ModuleVisitor.java
*
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jar/org/springframework/asm/Opcodes.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/FieldWriter.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/Constants.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/Symbol.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-

jar/org/springframework/asm/ConstantDynamic.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/Label.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/MethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/Attribute.java

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jar/org/springframework/util/StringUtils.java  
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-  
jar/org/springframework/core/codec/StringDecoder.java  
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jar/org/springframework/core/annotation/AnnotationTypeMapping.java  
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jar/org/springframework/util/MimeTypeUtils.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
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jar/org/springframework/util/DigestUtils.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/asm/SpringAsmInfo.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/io/support/PropertySourceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/SimpleAliasRegistry.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/ConcurrentReferenceHashMap.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/util/ClassUtils.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/codec/ResourceDecoder.java
*
/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-

jar/org/springframework/core/ReactiveAdapterRegistry.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/style/ValueStyler.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/ContextResource.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/SmartClassLoader.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/InfrastructureProxy.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/task/SyncTaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/style/StylerUtils.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/task/TaskTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/SimpleIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/annotation/SynthesizedAnnotation.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
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/opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/annotation/AliasFor.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/serializer/support/SerializationDelegate.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
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- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
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- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/buffer/DataBufferUtils.java
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- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/env/AbstractEnvironment.java
- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/TypeDescriptor.java
- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
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- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/lang/Nullable.java
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- /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/comparator/InstanceComparator.java
- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/Conventions.java
- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/SpringVersion.java
- * /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/DefaultResourceLoader.java

* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/xml/StaxUtils.java

* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/log/LogAccessor.java

* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/SimpleRouteMatcher.java

* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/MimeType.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/codec/ByteArrayEncoder.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/CollectionFactory.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/Base64Utils.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/DecoratingProxy.java
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```

org.springframework.core.ReactiveAdapterRegistry\$SpringCoreBlockHoundIntegration

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
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1.271 spring-aop 5.2.5.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
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/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/AopProxy.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/PointcutEntry.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/TargetClassAware.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java

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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/ExpressionPointcut.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
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/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/interceptor/SimpleTraceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
*

/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
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/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/Advisor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/AspectComponentDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/AopContext.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
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jar/org/springframework/aop/config/AspectEntry.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/AfterAdvice.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/RawTargetAccess.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/IntroductionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/AdvisedSupportListener.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/BeforeAdvice.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/SpringProxy.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
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jar/org/springframework/aop/framework/AopInfrastructureBean.java

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*

/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java

* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java

* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java

* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java

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/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/ProxyFactory.java

* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java

* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java

* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/aopalliance/intercept/Invocation.java

* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/aopalliance/aop/Advice.java

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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/autoprox/target/AbstractBeanFactoryBasedTargetSourceCreator.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/aopalliance/intercept/MethodInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
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jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/autoprox/AbstractBeanFactoryAwareAdvisingPostProcessor.java
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jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/config/AopNamespaceUtils.java
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jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/target/HotSwappableTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/ProxyConfig.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
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jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/support/StaticMethodMatcher.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-

```

jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/target/SingletonTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/support/IntroductionInfoSupport.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java

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*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/TrueClassFilter.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/Advised.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/TargetSource.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/aopalliance/intercept/ConstructorInvocation.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/ProxyProcessorSupport.java
*
/opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/config/AopConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/TrueMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
jar/org/springframework/aop/framework/adapter/AfterReturningAdviceInterceptor.java

```

1.272 json-java 2.4-jdk15

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Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/JSONSerializer.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/xml/JSONTypes.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/util/PropertyFilter.java
- *
- /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/JSON.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/groovy/JsonSlurper.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/filters/AndPropertyFilter.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/util/WebHijackPreventionStrategy.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/JsonConfig.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/regexp/Perl5RegexpMatcher.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/JSONObject.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/util/CycleDetectionStrategy.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/JSONString.java
- *
- /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/processors/JsonValueProcessorMatcher.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/processors/JsonBeanProcessorMatcher.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/util/NewBeanInstanceStrategy.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/processors/DefaultValueProcessor.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/processors/JsonValueProcessor.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/regexp/RegexpMatcher.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/groovy/JsonGroovyBuilder.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/util/JsonEventListener.java
- *
- /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/processors/JsDateJsonBeanProcessor.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/filters/CompositePropertyFilter.java
- * /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-

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jar/net/sf/json/processors/DefaultValueProcessorMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/WebUtils.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/JSONUtils.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/processors/PropertyNameProcessorMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/filters/NotPropertyFilter.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/PropertyExclusionClassMatcher.java
*
/opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/processors/JsonBeanProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/JavaIdentifierTransformer.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/processors/DefaultDefaultValueProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/processors/JsDateJsonValueProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/AbstractJSON.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/JSONTokener.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/JSONFunction.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/JSONNull.java
*
/opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/regexp/RegexpUtils.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/filters/OrPropertyFilter.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/filters/TruePropertyFilter.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/JSONBuilder.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/filters/MappingPropertyFilter.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/PropertySetStrategy.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/test/JSONAssert.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/JSONException.java
*
/opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/regexp/JdkRegexpMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-

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jar/net/sf/json/processors/PropertyNameProcessor.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/JSONStringer.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/processors/JsonVerifier.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/util/EnumMorpher.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/xml/XMLSerializer.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/JSONArray.java
* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-
jar/net/sf/json/filters/FalsePropertyFilter.java
```

1.273 ant-launcher 1.10.8

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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
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bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

em-table v0.1.6

ember v2.2.0

ember-array-contains-helper

v1.0.2

ember-bootstrap v0.5.1

ember-cli v1.13.13

ember-cli-app-version v1.0.0

ember-cli-babel v5.1.6

ember-cli-content-security-policy v0.4.0

ember-cli-dependency-checker v1.2.0

ember-cli-htmlbars v1.0.2

ember-cli-htmlbars-inline-compile v0.3.1

ember-cli-ic-ajax v0.2.1

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Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
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Apache HBase - Server which contains JQuery minified javascript library version 1.8.3
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jar/org/codehaus/jackson/map/MappingJsonFactory.java
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1.277 javax-jdo 3.2.0-m3

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1.279 jctools-core 3.1.0

1.279.1 Available under license :

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

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  </repository>
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  </license>
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  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>

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  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>

```

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    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

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</prerequisites>

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  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
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Found

in path(s):

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- * limitations under the License.
- */

Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpScUnboundedAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
- *
- /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
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- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpScLinkedQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
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*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

```

jar/org/jctools/util/RangeUtil.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/package-info.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/BaseSpseLinkedListArrayQueue.java

1.280 checker-qual 3.5.0

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1.281 httpcomponents-client 4.5.13

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1.283 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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1.284 javassist 3.18.2-GA

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Found in path(s):

* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepository.java

* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformReadField.java

*

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/opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/ClassMap.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/ByteArrayClassPath.java
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jar/javassist/bytecode/InnerClassesAttribute.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/expr/Cast.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtConstructor.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtArray.java
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jar/javassist/compiler/ast/FieldDecl.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/expr/Handler.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtNewClass.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
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/opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/compiler/JvstCodeGen.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-
jar/javassist/convert/TransformBefore.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtNewConstructor.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/StackMap.java
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*
/opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/URLClassPath.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/Translator.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/CompileError.java
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/opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/SourceFileAttribute.java
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/opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/ClassClassPath.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/FactoryHelper.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtNewNestedClass.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/Javac.java
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/opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LocalVariableAttribute.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/BinExpr.java


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jar/javassist/SerialVersionUID.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/CtBehavior.java
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jar/javassist/bytecode/annotation/FloatMemberValue.java

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1.285 annotations 2.0.3

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1.287 commons-lang3 3.7

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1.289 javolution 5.5.1

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/**

* Interface for an element's attribute specifications.

*

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*

* <p>This is the original SAX1 interface for reporting an element's
* attributes. Unlike the new { @link org.xml.sax.Attributes Attributes }
* interface, it does not support Namespace-related information.</p>

*

* <p>When an attribute list is supplied as part of a
* { @link org.xml.sax.DocumentHandler#startElement startElement }
* event, the list will return valid results only during the
* scope of the event; once the event handler returns control
* to the parser, the attribute list is invalid. To save a
* persistent copy of the attribute list, use the SAX1 AttributeListImpl
* helper
class.</p>

*

* <p>An attribute list includes only attributes that have been
* specified or defaulted: #IMPLIED attributes will not be included.</p>

*

* <p>There are two ways for the SAX application to obtain information
* from the AttributeList. First, it can iterate through the entire
* list:</p>

*

```
* <pre>  
* public void startElement (String name, AttributeList atts) {  
*   for (int i = 0; i < atts.getLength(); i++) {  
*     String name = atts.getName(i);  
*     String type = atts.getType(i);  
*     String value = atts.getValue(i);  
*     [...]  
*   }  
* }  
* </pre>
```

*

* <p>(Note that the result of getLength() will be zero if there
* are no attributes.)

*

* <p>As an alternative, the application can request the value or
* type of specific attributes:</p>

*

```
* <pre>  
* public void startElement (String name, AttributeList atts) {  
*   String identifier = atts.getValue("id");  
*   String label = atts.getValue("label");  
*   [...]  
* }
```

```
* </pre>
*
* @since SAX 1.0
* @author
David Megginson
* @version 2.0.1 (sax2r2)
*/
```

Found in path(s):

`/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/AttributeList.java`

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```
/**
```

```
* Basic interface for resolving entities.
```

```
*
```

```
* <blockquote>
```

```
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* for further information.
```

```
* </blockquote>
```

```
*
```

```
* <p>If a SAX application needs to implement customized handling
```

```
* for external entities, it must implement this interface and
```

```
* register an instance with the SAX driver using the
```

```
* { @link org.xml.sax.XMLReader#setEntityResolver setEntityResolver }
```

```
* method.</p>
```

```
*
```

```
* <p>The XML reader will then allow the application to intercept any
```

```
* external entities (including the external DTD subset and external
```

```
* parameter entities, if any) before including them.</p>
```

```
*
```

```
* <p>Many SAX applications will not need to implement this interface,
```

```
* but it will be especially useful for applications that build
```

```
* XML
```

```
documents from databases or other specialised input sources,
```

```
* or for applications that use URI types other than URLs.</p>
```

```
*
```

```
* <p>The following resolver would provide the application
```

```
* with a special character stream for the entity with the system
```

```
* identifier "http://www.myhost.com/today":</p>
```

```
*
```

```
* <pre>
```

```
* import org.xml.sax.EntityResolver;
```

```
* import org.xml.sax.InputSource;
```

```
*
```

```
* public class MyResolver implements EntityResolver {
```

```
*   public InputSource resolveEntity (String publicId, String systemId)
```

```

* {
*   if (systemId.equals("http://www.myhost.com/today")) {
*       // return a special input source
*       MyReader reader = new MyReader();
*       return new InputSource(reader);
*   } else {
*       // use the default behaviour
*       return null;
*   }
* }
* }
* }
* </pre>

```

```

* <p>The application can also use this interface to redirect system
* identifiers to local URIs or to look up replacements in a catalog
* (possibly by using the
* public identifier).</p>

```

```

* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.XMLReader#setEntityResolver
* @see org.xml.sax.InputSource
*/

```

Found in path(s):

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/EntityResolver.java

```

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

```

// NO WARRANTY! This class is in the Public Domain.

```

```

/**

```

```

* Exception class for an unsupported operation.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>

```

```

* for further information.

```

```

* </blockquote>

```

```

*

```

```

* <p>An XMLReader will throw this exception when it recognizes a

```

```

* feature or property identifier, but cannot perform the requested

```

```

* operation (setting a state or value). Other SAX2 applications and

```

```

* extensions may use this class for similar purposes.</p>

```

```

*

```

```

* @since SAX 2.0

```

```

* @author David Megginson

```

```

* @version 2.0.1 (sax2r2)

```

* @see org.xml.sax.SAXNotRecognizedException

*/

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/SAXNotSupportedException.java

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

/**

* Interface for associating a SAX event with a document location.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* See http://www.saxproject.org

* for further information.

* </blockquote>

*

* <p>If a SAX parser provides location information to the SAX

* application, it does so by implementing this interface and then

* passing an instance to the application using the content

* handler's { @link org.xml.sax.ContentHandler#setDocumentLocator

* setDocumentLocator} method. The application can use the

* object to obtain the location of any other SAX event

* in the XML source document.</p>

*

* <p>Note that the results returned by the object will be valid only

* during the scope of each callback method: the application

* will receive unpredictable results if it

* attempts to use the

* locator at any other time, or after parsing completes.</p>

*

* <p>SAX parsers are not required to supply a locator, but they are

* very strongly encouraged to do so. If the parser supplies a

* locator, it must do so before reporting any other document events.

* If no locator has been set by the time the application receives

* the { @link org.xml.sax.ContentHandler#startDocument startDocument}

* event, the application should assume that a locator is not

* available.</p>

*

* @since SAX 1.0

* @author David Megginson

* @version 2.0.1 (sax2r2)

* @see org.xml.sax.ContentHandler#setDocumentLocator

*/

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/Locator.java

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

```
/*
 * Javolution - Java(TM) Solution for Real-Time and Embedded Systems
 * Copyright (C) 2005 - Javolution (http://javolution.org/)
 * All rights reserved.
 *
 * Permission to use, copy, modify, and distribute this software is
 * freely granted, provided that this notice is preserved.
 */
```

Found in path(s):

```
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/sax/XMLReaderImpl.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/EnumConstantNotPresentException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/ReentrantLock.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javax/realtime/MemoryArea.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/Serializable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/lang/Immutable.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/Formattable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javax/realtime/RealtimeThread.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/logging/Logger.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/FormatFlagsConversionMismatchException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/Comparable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/TooManyListenersException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/text/Text.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/lang/Enum.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/NoSuchFieldException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/io/Union.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/Queue.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/FileInputStream.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/Closeable.java
```

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/InvalidClassException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/lang/Reflection.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/XMLStreamException.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/ObjectOutputStream.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/Set.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/NotActiveException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/UnknownFormatConversionException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/Immutable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/IllegalFormatPrecisionException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/HashMap.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/lang/Configurable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/FastList.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/zip/ZipFile.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/text/ParsePosition.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/NotSerializableException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/LinkedHashMap.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javax/realtime/RealtimeThread.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/logging/Level.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/nio/ByteOrder.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/Number.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/ListIterator.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/nio/InvalidMarkException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/LinkedList.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/io/UTF8ByteBufferReader.java

```



```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/ObjectInput.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/Observable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/ThreadLocal.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/SecurityException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/ArrayList.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/InputMismatchException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/UnknownFormatFlagsException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/sax/XMLReaderImpl.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/nio/ByteBuffer.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/MissingFormatWidthException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/SortedSet.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/Index.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/ConcurrentModificationException.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/text/CharArray.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/concurrent/ConcurrentMap.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/ObjectInputStream.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/StreamCorruptedException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/logging/LogRecord.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/Index.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/IllegalStateException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javax/realtime/NoHeapRealtimeThread.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/ObjectOutput.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/stream/XMLStreamException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-

```

```

jar/_templates/java/util/DuplicateFormatFlagsException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/text/Text.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/Reflection.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/EntitiesImpl.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/SortedMap.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/ObjectInputValidation.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/FastList.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/FileOutputStream.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/MissingFormatArgumentException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/FastTable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/WriteAbortedException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/InvalidObjectException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/Observer.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/CloneNotSupportedException.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/io/Union.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/SyncFailedException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/FileFilter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/Configurable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/IllegalFormatWidthException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/File.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/util/ReentrantLock.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/io/CharSequenceReader.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/Collection.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/Map.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javax/realtime/MemoryArea.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/io/CharSequenceReader.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/CharConversionException.java

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/Comparator.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/LinkedHashSet.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/stream/XMLInputFactory.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/NoSuchElementException.java
 *
 /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/OptionalDataException.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/stream/EntitiesImpl.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/CharSequence.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/EventListener.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/RandomAccess.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/InvalidPropertiesFormatException.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/ObjectStreamException.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/IllegalFormatConversionException.java
 *
 /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/text/CharArray.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/IllegalFormatFlagsException.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/HashSet.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/FileNotFoundException.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/FilenameFilter.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/DataInput.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/FastTable.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/Formatter.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/NoSuchMethodException.java
 *
 /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javax/realtime/NoHeapRealtimeThread.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/Readable.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/TypeNotPresentException.java

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* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/Flushable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/nio/BufferUnderflowException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/XMLInputFactory.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/List.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/nio/Buffer.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/Iterator.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/Cloneable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/lang/UnsupportedOperationException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/IllegalFormatException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/IllegalFormatCodePointException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/MissingResourceException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/io/DataOutput.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/FormatterClosedException.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/java/util/zip/ZipEntry.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/Iterable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/io/UTF8ByteBufferedReader.java

```

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

```
/**
```

```
* Default base class for handlers.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
```

```
* for further information.
```

```
* </blockquote>
```

```
*
```

```
* <p>This class implements the default behaviour for four SAX1
```

```
* interfaces: EntityResolver, DTDHandler, DocumentHandler,
```

```
* and ErrorHandler. It is now obsolete, but is included in SAX2 to
```

```
* support legacy SAX1 applications. SAX2 applications should use
```

```
* the DefaultHandler class instead.</p>
```

```
*
```

```
* <p>Application writers can extend this class when they need to
```

```

* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application has not supplied its own.</p>
*
* <p>Note that the use of this class is optional.</p>
*
* @deprecated This
class works with the deprecated DocumentHandler
* interface. It has been replaced by the SAX2 DefaultHandler
* class.
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/HandlerBase.java
No license file was found, but licenses were detected in source scan.

```

```

/**
* Receive notification of general document events.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This was the main event-handling interface for SAX1; in
* SAX2, it has been replaced by { @link org.xml.sax.ContentHandler
* ContentHandler}, which provides Namespace support and reporting
* of skipped entities. This interface is included in SAX2 only
* to support legacy SAX1 applications.</p>
*
* <p>The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event
and the corresponding endElement event.</p>
*
* <p>Application writers who do not want to implement the entire
* interface can derive a class from HandlerBase, which implements

```

- * the default functionality; parser writers can instantiate
- * HandlerBase to obtain a default handler. The application can find
- * the location of any document event using the Locator interface
- * supplied by the Parser through the setDocumentLocator method.</p>
- *
- * @since SAX 1.0
- * @author David Megginson
- * @version 2.0.1 (sax2r2)
- * @see org.xml.sax.Parser#setDocumentHandler
- * @see org.xml.sax.Locator
- * @see org.xml.sax.HandlerBase
- */

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/DocumentHandler.java

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

/**

- * Basic interface for SAX (Simple API for XML) parsers.
- *
- * <blockquote>
- * This module, both source code and documentation, is in the
- * Public Domain, and comes with NO WARRANTY.
- * See http://www.saxproject.org
- * for further information.
- * </blockquote>
- *
- * <p>This was the main event supplier interface for SAX1; it has
- * been replaced in SAX2 by { @link org.xml.sax.XMLReader XMLReader },
- * which includes Namespace support and sophisticated configurability
- * and extensibility.</p>
- *
- * <p>All SAX1 parsers must implement this basic interface: it allows
- * applications to register handlers for different types of events
- * and to initiate a parse from a URI, or a character stream.</p>
- *
- * <p>All SAX1 parsers must also implement a zero-argument constructor
- * (though other constructors are also allowed).</p>
- *
- * <p>SAX1 parsers are reusable
- but not re-entrant: the application
- * may reuse a parser object (possibly with a different input source)
- * once the first parse has completed successfully, but it may not
- * invoke the parse() methods recursively within a parse.</p>
- *
- * @deprecated This interface has been replaced by the SAX2
- * { @link org.xml.sax.XMLReader XMLReader }

```
*      interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/
```

Found in path(s):

```
*/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/Parser.java
```

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

```
/*
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* Copyright (C) 2009 - Javolution (http://javolution.org/)
* All rights reserved.
*
* Permission to use, copy, modify, and distribute this software is
* freely granted, provided that this notice is preserved.
*/
```

Found in path(s):

```
*/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/PoolContext.java
```

```
*/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/PoolContext.java
```

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```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
* Interface for an XML filter.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>An XML filter is like an XML reader, except that it obtains its
* events from another XML reader rather than a primary source like
* an XML document or database. Filters can modify a stream of
* events as they pass on to the final application.</p>
*/
```

```
* <p>The XMLFilterImpl helper class provides a convenient base
* for creating SAX2 filters, by passing on all { @link org.xml.sax.EntityResolver
* EntityResolver}, { @link org.xml.sax.DTDHandler DTDHandler},
* { @link org.xml.sax.ContentHandler ContentHandler} and { @link org.xml.sax.ErrorHandler
* ErrorHandler}
* events automatically.</p>
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/
```

Found in path(s):

```
*/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/XMLFilter.java
No license file was found, but licenses were detected in source scan.
```

```
/*
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* All rights reserved.
*
* Permission to use, copy, modify, and distribute this software is
* freely granted, provided that this notice is preserved.
*/
```

Found in path(s):

```
*/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/FastBitSet.java
*/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/FastBitSet.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* Encapsulate an XML parse error or warning.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This exception may include information for locating the error
* in the original XML document, as if it came from a { @link Locator}
* object. Note that although the application
* will receive a SAXParseException as the argument to the handlers
* in the { @link org.xml.sax.ErrorHandler ErrorHandler} interface,
* the application is not actually required to throw the exception;
* instead, it can simply read the information in it and take a
```


* different action.</p>
 *
 * <p>Since this exception is a subclass of { @link org.xml.sax.SAXException
 * SAXException}, it inherits the ability to wrap
 another exception.</p>
 *
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 * @see org.xml.sax.SAXException
 * @see org.xml.sax Locator
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
 jar/org/xml/sax/SAXParseException.java

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

/**

* Receive notification of basic DTD-related events.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with NO WARRANTY.
 * See http://www.saxproject.org
 * for further information.
 * </blockquote>
 *
 * <p>If a SAX application needs information about notations and
 * unparsed entities, then the application implements this
 * interface and registers an instance with the SAX parser using
 * the parser's setDTDHandler method. The parser uses the
 * instance to report notation and unparsed entity declarations to
 * the application.</p>
 *
 * <p>Note that this interface includes only those DTD events that
 * the XML recommendation requires processors to report:
 * notation and unparsed entity declarations.</p>
 *
 * <p>The SAX parser may report these events in any order, regardless
 * of the order in which the notations and unparsed entities were
 * declared; however, all DTD events must be reported after the
 * document handler's startDocument event, and before the first
 * startElement event.
 * (If the LexicalHandler is
 * used, these events must also be reported before the endDTD event.)
 * </p>

*
 * <p>It is up to the application to store the information for
 * future use (perhaps in a hash table or object tree).
 * If the application encounters attributes of type "NOTATION",
 * "ENTITY", or "ENTITIES", it can use the information that it
 * obtained through this interface to find the entity and/or
 * notation corresponding with the attribute value.</p>
 *
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/DTDHandler.java

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 *
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 * freely granted, provided that this notice is preserved.
 */

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/lang/ClassInitializer.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/sax/Attributes.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/XMLObjectReader.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/HeapContext.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/stream/XMLStreamReaderImpl.java

*
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/stream/XMLStreamWriter.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/stream/NamespacesImpl.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/nio/CharBuffer.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/io/AppendableWriter.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/Allocator.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-

```

jar/_templates/javolution/xml/XMLReferenceResolver.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/FastCollection.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/XMLFormat.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/text/TextBuilder.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/io/AppendableWriter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/FastIterator.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/text/TextBuilder.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/StackContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/StandardLog.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/PersistentContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/XMLObjectWriter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/sax/ContentHandler.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/ConcurrentException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/LogContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/ObjectFactory.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/ConcurrentThread.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/io/UTF8StreamWriter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/Reference.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/XMLObjectReader.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/ConcurrentContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/sax/SAX2ReaderImpl.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/io/UTF8ByteBufferWriter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/XMLStreamWriter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/XMLFormat.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/sax/DefaultHandler.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/io/UTF8StreamReader.java

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/text/TypeFormat.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/lang/Reference.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/XMLBinding.java
 *
 /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/text/Appendable.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/sax/DefaultHandler.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/stream/XMLStreamWriterImpl.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/io/UTF8StreamWriter.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/context/HeapContext.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/Reusable.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/util/FastIterator.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/ConcurrentThread.java
 *
 /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/sax/XMLReader.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/LocalContext.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/FastSet.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/context/StackContext.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/stream/NamespaceContext.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/text/CharSet.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/util/FastMap.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/stream/XMLStreamReader.java
 *
 /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/sax/Attributes.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/stream/XMLStreamReaderImpl.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/io/Struct.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/sax/XMLReader.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/text/TypeFormat.java
 * /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/stream/NamespaceContext.java

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/io/Struct.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/XMLStreamWriterImpl.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/Location.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/lang/Reusable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/ConcurrentException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/io/UTF8ByteBufferWriter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/PersistentContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/text/CharSet.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/sax/ContentHandler.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/stream/XMLStreamReader.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/util/FastMap.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/XMLOutputFactory.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/stream/XMLOutputFactory.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/StandardLog.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/LogContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/io/UTF8StreamReader.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/XMLBinding.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/text/TextFormat.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/lang/ClassInitializer.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/Allocator.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/stream/XMLStreamConstants.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/XMLReferenceResolver.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/sax/SAX2ReaderImpl.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/stream/XMLStreamConstants.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-

```

```
jar/javolution/xml/stream/Location.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/LocalContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/XMLObjectWriter.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/ConcurrentContext.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/stream/NamespacesImpl.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/text/TextFormat.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/ObjectFactory.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/FastSet.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/util/FastCollection.java
No license file was found, but licenses were detected in source scan.
```

```
/*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/text/Cursor.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/text/Cursor.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/testing/JUnitContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/testing/JUnitContext.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* A single input source for an XML entity.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
```

```

*
* <p>This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.</p>
*
* <p>There are two places that the application can deliver an
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
* method.</p>
*
* <p>The SAX parser will use the InputSource object to determine how
* to read XML input. If there is a character stream
* available, the
* parser will read that stream directly, disregarding any text
* encoding declaration found in that stream.
* If there is no character stream, but there is
* a byte stream, the parser will use that byte stream, using the
* encoding specified in the InputSource or else (if no encoding is
* specified) autodetecting the character encoding using an algorithm
* such as the one in the XML specification. If neither a character
* stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier.</p>
*
* <p>An InputSource object belongs to the application: the SAX parser
* shall never modify it in any way (it may modify a copy if
* necessary). However, standard processing of both byte and
* character streams is to close them on as part of end-of-parse cleanup,
* so applications should not attempt to re-use such streams after they
* have been handed to a parser. </p>
*
* @since
  SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.XMLReader#parse(org.xml.sax.InputSource)
* @see org.xml.sax.EntityResolver#resolveEntity
*/

```

Found in path(s):

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/InputSource.java
No license file was found, but licenses were detected in source scan.

```

```

// NO WARRANTY! This class is in the public domain.

```

```

/**

```

```

* Interface for a list of XML attributes.

```

*
* <blockquote>
* This module, both source code and documentation, is in the
* Public Domain, and comes with NO WARRANTY.
* See http://www.saxproject.org
* for further information.
* </blockquote>

*
* <p>This interface allows access to a list of attributes in
* three different ways:</p>

*
*
* by attribute index;
* by Namespace-qualified name; or
* by qualified (prefixed) name.
*

*
* <p>The list will not contain attributes that were declared
* #IMPLIED but not specified in the start tag. It will also not
* contain attributes used as Namespace declarations (xmlns*) unless
* the <code>http://xml.org/sax/features/namespace-prefixes</code>
* feature is set to <var>>true</var> (it is <var>>false</var>
by
* default).
* Because SAX2 conforms to the original "Namespaces in XML"
* recommendation, it normally does not
* give namespace declaration attributes a namespace URI.
* </p>

*
* <p>Some SAX2 parsers may support using an optional feature flag
* (<code>http://xml.org/sax/features/xmlns-uris</code>) to request
* that those attributes be given URIs, conforming to a later
* backwards-incompatible revision of that recommendation. (The
* attribute's "local name" will be the prefix, or "xmlns" when
* defining a default element namespace.) For portability, handler
* code should always resolve that conflict, rather than requiring
* parsers that can change the setting of that feature flag. </p>

*
* <p>If the namespace-prefixes feature (see above) is
* <var>>false</var>, access by qualified name may not be available; if
* the <code>http://xml.org/sax/features/namespaces</code> feature is
* <var>>false</var>, access by Namespace-qualified names may not be
* available.</p>

*
* <p>This interface replaces the now-deprecated SAX1 { @link
* org.xml.sax.AttributeList AttributeList } interface, which does not
* contain Namespace support. In addition to Namespace support, it
* adds the <var>getIndex</var> methods (below).</p>


```

*
* <p>The order of attributes in the list is unspecified, and will
* vary from implementation to implementation.</p>
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

```

Found in path(s):

```
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/Attributes.java
```

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```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Interface for reading an XML document using callbacks.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
```

```
* for further information.
```

```
* </blockquote>
```

```
*
```

```
* <p><strong>Note:</strong> despite its name, this interface does
```

```
* <em>not</em> extend the standard Java Reader
```

```
* interface, because reading XML is a fundamentally different activity
```

```
* than reading character data.</p>
```

```
*
```

```
* <p>XMLReader is the interface that an XML parser's SAX2 driver must
```

```
* implement. This interface allows an application to set and
```

```
* query features and properties in the parser, to register
```

```
* event handlers for document processing, and to initiate
```

```
* a document parse.</p>
```

```
*
```

```
* <p>All SAX interfaces are assumed
```

```
to be synchronous: the
```

```
* { @link #parse parse } methods must not return until parsing
```

```
* is complete, and readers must wait for an event-handler callback
```

```
* to return before reporting the next event.</p>
```

```
*
```

```
* <p>This interface replaces the (now deprecated) SAX 1.0 { @link
```

```
* org.xml.sax.Parser Parser } interface. The XMLReader interface
```

```
* contains two important enhancements over the old Parser
```

```
* interface (as well as some minor ones):</p>
```

```
*
```

```
* <ol>
```

```
* <li>it adds a standard way to query and set features and
```

```

* properties; and</li>
* <li>it adds Namespace support, which is required for many
* higher-level XML standards.</li>
* </ol>
*
* <p>There are adapters available to convert a SAX1 Parser to
* a SAX2 XMLReader and vice-versa.</p>
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1+ (sax2r3pre1)
* @see org.xml.sax.XMLFilter
*/

```

Found in path(s):

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/XMLReader.java
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```

```

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*/

/*
* =====
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*
* Developed at SunSoft, a Sun Microsystems, Inc. business.
* Permission to use, copy, modify, and distribute this
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* is preserved.
* =====
*
*/

/*
* =====
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*
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* software
is freely granted, provided that this notice
* is preserved.
* =====
*/

```

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-

jar/_templates/javolution/lang/MathLib.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/MathLib.java

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

/**

* Encapsulate a general SAX error or warning.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* See http://www.saxproject.org

* for further information.

* </blockquote>

*

* <p>This class can contain basic error or warning information from

* either the XML parser or the application: a parser writer or

* application writer can subclass it to provide additional

* functionality. SAX handlers may throw this exception or

* any exception subclassed from it.</p>

*

* <p>If the application needs to pass through other types of

* exceptions, it must wrap those exceptions in a SAXException

* or an exception derived from a SAXException.</p>

*

* <p>If the parser or application needs to include information about a

* specific location in an XML document, it should use the

* { @link org.xml.sax.SAXParseException SAXParseException } subclass.</p>

*

* @since SAX 1.0

* @author David Megginson

* @version 2.0.1 (sax2r2)

* @see org.xml.sax.SAXParseException

*/

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/SAXException.java

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

/**

* Basic interface for SAX error handlers.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* See http://www.saxproject.org

* for further information.

```

* </blockquote>
*
* <p>If a SAX application needs to implement customized error
* handling, it must implement this interface and then register an
* instance with the XML reader using the
* { @link org.xml.sax.XMLReader#setErrorHandler setErrorHandler }
* method. The parser will then report all errors and warnings
* through this interface.</p>
*
* <p><strong>WARNING:</strong> If an application does <em>not</em>
* register an ErrorHandler, XML parsing errors will go unreported,
* except that <em>SAXParseException</em>s will be thrown for fatal errors.
* In order to detect validity errors, an ErrorHandler that does
* something
* with { @link #error error() } calls must be registered.</p>
*
* <p>For XML processing errors, a SAX driver must use this interface
* in preference to throwing an exception: it is up to the application
* to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to report additional errors after a call to
* { @link #fatalError fatalError}. In other words, a SAX driver class
* may throw an exception after reporting any fatalError.
* Also parsers may throw appropriate exceptions for non-XML errors.
* For example, { @link XMLReader#parse XMLReader.parse()} would throw
* an IOException for errors accessing entities or the document.</p>
*
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1+ (sax2r3pre1)
* @see org.xml.sax.XMLReader#setErrorHandler
* @see org.xml.sax.SAXParseException
*/

```

Found in path(s):

```
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/ErrorHandler.java
```

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```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Exception class for an unrecognized identifier.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
```

```
* for further information.
```

```
* </blockquote>
```

*
* <p>An XMLReader will throw this exception when it finds an
* unrecognized feature or property identifier; SAX applications and
* extensions may use this class for other, similar purposes.</p>
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.SAXNotSupportedException
*/

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java

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*/

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/testing/AssertionException.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/XMLSerializable.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/xml/QName.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/context/Context.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/context/ArrayFactory.java

*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/ws/WebServiceClient.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/ArrayFactory.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/Context.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/ImmortalContext.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/testing/TestCase.java

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/testing/TimeContext.java

```

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/ValueType.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/testing/TestCase.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/testing/TestSuite.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/lang/Realtime.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/ImmortalContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/testing/TestContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/QName.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/AllocatorContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/xml/XMLSerializable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/AllocatorContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/xml/ws/WebServiceClient.java
*
/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/testing/TestSuite.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/testing/TimeContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/lang/ValueType.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/testing/TestContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/context/SecurityContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/javolution/testing/AssertionException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
jar/_templates/javolution/context/SecurityContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/lang/Realtime.java
No license file was found, but licenses were detected in source scan.

```

```
// NO WARRANTY! This class is in the public domain.
```

```
/**
```

```
* Receive notification of the logical content of a document.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
```

```
* for further information.
```

```
* </blockquote>
```

```
*
```

* <p>This is the main interface that most SAX applications
* implement: if the application needs to be informed of basic parsing
* events, it implements this interface and registers an instance with
* the SAX parser using the { @link org.xml.sax.XMLReader#setContentHandler
* setContentHandler} method. The parser uses the instance to report
* basic document-related events like the start and end of elements
* and character data.</p>

*
* <p>The order of events in this interface is very important, and
* mirrors the order
of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>

*
* <p>This interface is similar to the now-deprecated SAX 1.0
* DocumentHandler interface, but it adds support for Namespaces
* and for reporting skipped entities (in non-validating XML
* processors).</p>

*
* <p>Implementors should note that there is also a
* <code>ContentHandler</code> class in the <code>java.net</code>
* package; that means that it's probably a bad idea to do</p>

*
* <pre>import java.net.*;
* import org.xml.sax.*;
* </pre>

*
* <p>In fact, "import ...*" is usually a sign of sloppy programming
* anyway, so the user should consider this a feature rather than a
* bug.</p>

*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1+ (sax2r3pre1)
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):

* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/ContentHandler.java

1.290 guava 30.1-jre

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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/util/concurrent/ServiceManagerBridge.java
* /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/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/reflect/TypeVisitor.java

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

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

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*/

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jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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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

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* /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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*/

/*

* 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
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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/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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```

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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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 */
/*
 * 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
```

```
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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/Hashing.java
```

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```

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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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```
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```

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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/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/reflect/Reflection.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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/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
* /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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/TrieParser.java

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

*/

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* /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/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
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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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GwtTransient.java
* /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/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/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
* /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-

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

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```
* /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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*/
/**
* Holder for web specializations of methods of { @code Ints}. Intended to be empty for regular
* version.
*/

Found in path(s):

* /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/ImmutableSortedAsList.java

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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/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/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-

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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-
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jar/com/google/common/hash/LittleEndianByteArray.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/FarmHashFingerprint64.java
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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/graph/IncidentEdgeSet.java
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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/collect/AbstractMultiset.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java
- *
- /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java
- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java
- * /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/EnumHashBiMap.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/ConcurrentHashMapMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/HashMapMultimap.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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Multimap.java
* /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-

```

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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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimap.java
*
/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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ReverseOrdering.java
* /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/LinkedHashMultimap.java

```

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

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* /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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express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*
* 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/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Striped.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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* /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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```

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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

```

1.291 aop-alliance 1.0

1.291.1 Available under license :

Public Domain

1.292 tephra-hbase-compat-1.0 0.6.0

1.292.1 Available under license :

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```

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 */

```

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* /opt/cola/permits/1120497655_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/coprocessor/TransactionProcessor.java
* /opt/cola/permits/1120497655_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/Filters.java

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* /opt/cola/permits/1120497655_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/HBase10ConfigurationProvider.java

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* /opt/cola/permits/1120497655_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-jar/co/cask/tephra/hbase10/TransactionAwareHTable.java

* /opt/cola/permits/1120497655_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-

```
jar/co/cask/tephra/hbase10/SecondaryIndexTable.java
* /opt/cola/permits/1120497655_1609977972.89/0/tephra-hbase-compat-1-0-0-6-0-sources-1-
jar/co/cask/tephra/hbase10/coprocessor/TransactionVisibilityFilter.java
```

1.293 java-util 1.9.0

1.293.1 Available under license :

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```
/**
 * Generate a unique ID that fits within a long value quickly, will never create a duplicate value,
 * even if called insanely fast, and it incorporates part of the IP address so that machines in
 * a cluster will not create duplicates. It guarantees no duplicates because it keeps
 * the last 100 generated, and compares those against the value generated, if it matches, it
 * will continue generating until it does not match. It will generate 100 per millisecond without
 * matching. Once the requests for more than 100 unique IDs per millisecond is exceeded, the
 * caller will be slowed down, because it will be retrying. Keep in mind, 100 per millisecond is
 * 10 microseconds continuously without interruption.
 *
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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/UniqueIdGenerator.java
```

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

```
/**
 * Useful encryption utilities that simplify tasks like getting an
 * encrypted String return value (or MD5 hash String) for String or
 * Stream input.
 *
 * @author John DeRegnaucourt (jdereg@gmail.com)
```



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Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/EncryptionUtilities.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/ByteUtilities.java
```

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```
/**
```

```
* This invocation handler maintains the cookies for the connection.
*
* @author John DeRegnaucourt (jdereg@gmail.com)
* <br/>
```

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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/CookieAwareUrlInvocationHandler.java
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```

```
/**
```

```
* Useful IOUtilities that simplify common io tasks
*
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```

Found in path(s):

```
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jar/com/cedarsoftware/util/IOUtilities.java
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```

```
/**
```

```
* Useful utilities for working with UrlConnections and IO.
*
```

```
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```

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```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/UrlUtilities.java
```

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```
/**
```

```
* Implements a java.util.Set that will not utilize 'case' when comparing Strings
* contained within the Set. The set can be homogeneous or heterogeneous.
* If the CaseInsensitiveSet is iterated, when Strings are encountered, the original
* Strings are returned (retains case).
```

```
*
```

```
* @author John DeRegnaucourt (jdereg@gmail.com)
```

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```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
```

jar/com/cedarsoftware/util/CaseInsensitiveSet.java

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/**

* Handy utilities for working with Java Dates.

*

* @author John DeRegnaucourt (jdereg@gmail.com)

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* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-

jar/com/cedarsoftware/util/DateUtilities.java

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Found in path(s):

* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-

jar/com/cedarsoftware/util/ReflectionUtils.java

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/**

* Useful utility for allowing Java code to make Ajax calls, yet the Java code
* can make these calls via Dynamic Proxies created from Java interfaces for
* the remote server(s).

*

* Example:

*

* Assume you have a tomcat instance running a JSON Command Servlet, like com.cedarsoftware's or
* Spring MVC.

*

* Assume you have a Java interface 'Explorer' that is mapped to a Java bean that you are allowing
* to be called through RESTful JSON calls (Ajax / XHR).

*

* Explorer has methods on it, like getFiles(userId), etc.

*

* You need to use a SessionAware (JSESSIONID only) or CookieAware UrlInvocationHandler to interact
* with the server so that the cookies will be placed on all requests. In Javascript within browsers,
* this is taken care of for you. Not so in the Java side.

* <pre>

* Map cookies = new HashMap();

* String url = "http://www.mycompany.com:80/json/"

* InvocationHandler handler = new

CookieAwareUrlInvocationHandler(new URL(url), cookies);

* // This will handle all cookies, or you could use (where 'sessionId' holds the value of the JSESSIONID

* InvocationHandler handler = new SessionAwareUrlInvocationHandler(new URL(url), sessionId);

*

* Explorer explorer = (Explorer) ProxyFactory.create(Explorer.class, handler);

*

* At this point, your Java code can do this:

*

* List files = explorer.getFiles(userId);

* </pre>

*

* @author John DeRegnaucourt (jdereg@gmail.com) & Ken Partlow (kpartlow@gmail.com)

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* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/UrlInvocationHandler.java

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/**

- * Handy utilities for working with Java arrays.
- *
- * @author John DeRegnacourt (jdereg@gmail.com) & Ken Partlow
- *

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* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/ArrayUtilities.java

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/**

- * Useful System utilities for common tasks
- *
- * @author John DeRegnacourt (jdereg@gmail.com)
- *

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```

Found in path(s):

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jar/com/cedarsoftware/util/SystemUtilities.java
```

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```
/**
```

```
* Java Object Graph traverser. It will visit all Java object
* reference fields and call the passed in Visitor instance with
* each object encountered, including the root. It will properly
* detect cycles within the graph and not hang.
*
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Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/Traverser.java
```

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```
/**
```

```
* Useful Math utilities
*
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Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/MathUtilities.java
```

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

```
/**
```

```
* This class implements a Thread-Safe (re-entrant) SimpleDateFormat
* class. It does this by using a ThreadLocal that holds a Map, instead
* of the traditional approach to hold the SimpleDateFormat in a ThreadLocal.
*
* Each ThreadLocal holds a single HashMap containing SimpleDateFormats, keyed
* by a String format (e.g. "yyyy/M/d", etc.), for each new SimpleDateFormat
* instance that was created within the threads execution context.
*
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Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/SafeSimpleDateFormat.java
```


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```
/**
 * This handler adds the JSESSIONID cookie so that the Java Application (or Applet)
 * can respond with the HTTP session Cookie header.
 *
 * @author John DeRegnaucourt (jdereg@gmail.com)
 *
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 */
```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/SessionAwareUrlInvocationHandler.java
No license file was found, but licenses were detected in source scan.
```

```
/**
 * Test two objects for equivalence with a 'deep' comparison. This will traverse
 * the Object graph and perform either a field-by-field comparison on each
 * object (if no .equals() method has been overridden from Object), or it
 * will call the customized .equals() method if it exists. This method will
 * allow object graphs loaded at different times (with different object ids)
 * to be reliably compared. Object.equals() / Object.hashCode() rely on the
 * object's identity, which would not consider two equivalent objects necessarily
 * equals. This allows graphs containing instances of Classes that did not
 * override .equals() / .hashCode() to be compared. For example, testing for
 * existence in a cache. Relying on an object's identity will not locate an
 * equivalent object in a cache.<br/><br/>
 *
 * This method will handle cycles correctly, for example A->B->C->A. Suppose a and
 * a' are two separate
 * instances of A with the same values for all fields on
 * A, B, and C. Then a.deepEquals(a') will return true. It uses cycle detection
 * storing visited objects in a Set to prevent endless loops.
 *
 * @author John DeRegnaucourt (jdereg@gmail.com)
```

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Found

in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/DeepEquals.java
```

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```
/**
```

```
* Useful String utilities for common tasks
```

```
*
```

```
* @author John DeRegnaucourt (jdereg@gmail.com) & Ken Partlow
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/StringUtilities.java
```

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```
/**
```

* Useful Map that does not care about the case-sensitivity of keys
 * when the key value is a String. Other key types can be used.
 * String keys will be treated case insensitively, yet key case will
 * be retained. Non-string keys will work as they normally would.
 * <p/>
 * The internal CaseInsentitiveString is never exposed externally
 * from this class. When requesting the keys or entries of this map,
 * or calling containsKey() or get() for example, use a String as you
 * normally would. The returned Set of keys for the keySet() and
 * entrySet() APIs return the original Strings, not the internally
 * wrapped CaseInsensitiveString.
 *
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* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
 jar/com/cedarsoftware/util/CaseInsensitiveMap.java

1.294 json-io 2.5.1

1.294.1 Available under license :

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/**

* Read an object graph in JSON format and make it available in Java objects, or
 * in a "Map of Maps." (untyped representation). This code handles cyclic references
 * and can deserialize any Object graph without requiring a class to be 'Serializeable'
 * or have any specific methods on it. It will handle classes with non public constructors.

*

* Usages:

*

```

* Call the static method: {@code JsonReader.objectToJava(String json)}. This will
* return a typed Java object graph.</li>
* <li>
* Call the static method: {@code JsonReader.jsonToMaps(String json)}. This will
* return an untyped object representation of the JSON String as a Map of Maps, where
* the fields are the Map keys, and the field values are the associated Map's values. You can
* call the JsonWriter.objectToJava() method with the returned Map, and it will serialize
* the Graph into the identical JSON stream from which
it was read.
* <li>
* Instantiate the JsonReader with an InputStream: {@code JsonReader(InputStream in)} and then call
* {@code readObject()}. Cast the return value of readObject() to the Java class that was the root of
* the graph.
* </li>
* <li>
* Instantiate the JsonReader with an InputStream: {@code JsonReader(InputStream in, true)} and then call
* {@code readObject()}. The return value will be a Map of Maps.
* </li></ul><br/>
*
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```

Found in path(s):

```

* /opt/cola/permits/1120497754_1609978047.3/0/json-io-2-5-1-sources-1-
jar/com/cedarsoftware/util/io/JsonReader.java

```

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```

/**

```

```

* Output a Java object graph in JSON format. This code handles cyclic
* references and can serialize any Object graph without requiring a class
* to be 'Serializeable' or have any specific methods on it.
* <br/><ul><li>
* Call the static method: {@code JsonWriter.toJson(employee)}. This will

```

```

* convert the passed in 'employee' instance into a JSON String.</li>
* <li>Using streams:
* <pre>   JsonWriter writer = new JsonWriter(stream);
*     writer.write(employee);
*     writer.close();</pre>
* This will write the 'employee' object to the passed in OutputStream.
* </li>
* <p>That's it. This can be used as a debugging tool. Output an object
* graph using the above code. You can copy that JSON output into this site
* which formats it with a lot of whitespace to make it human readable:
* http://jsonformatter.curiousconcept.com
* <br/><br/>
* <p>This will output any object graph deeply (or null).
  Object references are
  properly handled. For example, if you had A->B, B->C, and C->A, then
  A will be serialized with a B object in it, B will be serialized with a C
  object in it, and then C will be serialized with a reference to A (ref), not a
  redefinition of A.</p>
* <br/>
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```

Found in path(s):

```

* /opt/cola/permits/1120497754_1609978047.3/0/json-io-2-5-1-sources-1-
jar/com/cedarsoftware/util/io/JsonWriter.java

```

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```

/**

```

```

* This class holds a JSON object in a LinkedHashMap.
* LinkedHashMap used to keep fields in same order as they are
* when reflecting them in Java. Instances of this class hold a
* Map-of-Map representation of a Java object, read from the JSON

```

```
* input stream.
*
* @param <K> field name in Map-of-Map
* @param <V> Value
*
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```
*/opt/cola/permits/1120497754_1609978047.3/0/json-io-2-5-1-sources-1-
jar/com/cedarsoftware/util/io/JsonObject.java
```

1.295 jackson-xc 2.9.9

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1.296 jackson-xc 2.10.3

1.296.1 Available under license :

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1.297 jackson-jaxrs 2.10.3

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1.298 jackson-databind 2.10.5.1

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1.299 hive 2.1.1-cdh6.3.0

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1.300 xerces-j 2.12.0

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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-
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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-
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* /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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Found in path(s):

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

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/hash/package-info.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.

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Found in path(s):

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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/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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*/
/**
* 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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```
* /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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*/
```

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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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express  
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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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/*

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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
* /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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Found in path(s):

```
* /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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```

```
/**
* 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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* 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
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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/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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* /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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
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* /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


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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
* /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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```

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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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* /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

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

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- * /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GwtTransient.java
- * /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/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/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
- * /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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /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
* /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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jar/com/google/common/primitives/DoublesMethodsForWeb.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/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/IntsMethodsForWeb.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/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/ImmutableSortedAsList.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/io/Resources.java

* /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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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
```

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* /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/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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* /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
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java
* /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/EnumHashBiMap.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-
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* /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
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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


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* /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-
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jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/NaturalOrdering.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/collect/ExplicitOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimap.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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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ReverseOrdering.java
* /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/LinkedHashMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/HashMultiset.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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*/
```

Found in path(s):

```
* /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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```

Found in path(s):

```
* /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/collect/Streams.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/util/concurrent/IgnoreJRERequirement.java
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* /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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*/
/*
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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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* /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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* /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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*/
/**

```

```

* 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

```

1.302 bcel 2.7.2

1.302.1 Available under license :

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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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):

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java

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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xml/serializer/output_unknown.properties

*

/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xml/serializer/XMLEntities.properties

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/Makefile.inc

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xml/serializer/output_html.properties

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jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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*

/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/extensions/MethodResolver.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/Number.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/Extensions.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/transformer/SerializerSwitcher.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xpath/axes/HasPositionalPredChecker.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/templates/ElemUse.java

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jar/org/apache/xml/serializer/ExtendedContentHandler.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xpath/operations/NotEquals.java

*

/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/dom/NodeCounter.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/lib/sql/ObjectArray.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/runtime/Constants.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/NamespaceUriCall.java

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jar/org/apache/xml/serializer/Encodings.java

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jar/org/apache/xalan/templates/ElemLiteralResult.java

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jar/org/apache/xalan/templates/AVTPartXPath.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xpath/axes/WalkerFactory.java

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/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/util/FilterGenerator.java

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jar/org/apache/xpath/axes/ChildTestIterator.java

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jar/org/apache/xpath/patterns/ContextMatchStepPattern.java

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jar/org/apache/xalan/xsltc/runtime/Node.java

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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCopy.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_sv.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMDOMException.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/UnionPathIterator.java
 *
 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/MatchPatternIterator.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/dom2dtm/DOM2DTM.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/GetOpt.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextStream.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceManager.java
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 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ProcessingInstruction.java
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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/OutputProperties.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIterator.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ObjectFactory.java
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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/res/XPATHErrorResources_es.java
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/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/BooleanCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtFunctionAvailable.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/PooledConnection.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolverDefault.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/StripFilter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XObjectFactory.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/output/TransletOutputHandlerFactory.java
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/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSystemProperty.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/StylesheetComposed.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeSortRecordFactory.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StepPattern.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathResultImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM2.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncCeiling.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_de.java
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToXMLSAXHandler.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/DTMXRTreeFrag.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/FilterIterator.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemParam.java
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jar/org/apache/xalan/xsltc/runtime/ErrorMessage_ja.java
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/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectVector.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSet.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathFactory.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/URI.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/PrintTraceListener.java
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/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemDesc.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StringLengthCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ClassGenerator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFunction.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMHelper.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/WhitespaceInfoPaths.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEhancedForDTM.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_sk.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/UnionPattern.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerBase.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMAxisIteratorBase.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

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jar/org/apache/xpath/functions/FuncExtElementAvailable.java
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jar/org/apache/xpath/functions/FuncConcat.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/dom3/NamespacesSupport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/res/XPATHErrorResources_ca.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/WrongParserException.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/ExtensionHandlerExsltFunction.java
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/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/WrongNumberArgsException.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/XSLTCDTMMManager.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorsResources_zh.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/TemplateSubPatternAssociation.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/res/XPATHErrorsResources_fr.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

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jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
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 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/urls/URI.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltCommon.java
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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMCache.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
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 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CollatorFactoryBase.java
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jar/org/apache/xalan/xsltc/compiler/Whitespace.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/ReverseAxesWalker.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

jar/org/apache/xml/serializer/SecuritySupport.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/VariableRefBase.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xml/res/XMLErrorResources_de.java
 *
 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/templates/FuncFormatNumb.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage_cs.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/Arg.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/functions/FuncNamespace.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/templates/ElemWhen.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xml/serializer/Utils/SerializerMessages_ko.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/templates/StylesheetRoot.java
 *
 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/util/ErrorMsg.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xml/Utils/res/XResourceBundleBase.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/functions/Function.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/ProcessorVersion.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_pl.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/NodeSet.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/transformer/ResultNameSpace.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/trace/ExtensionEvent.java
 *
 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/transformer/CountersTable.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/dom/FilteredStepIterator.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage_de.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/ObjectFactory.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/patterns/FunctionPattern.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-


```

jar/org/apache/xml/dtm/SecuritySupport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_zh_TW.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/AbsoluteLocationPath.java
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorStylesheetElement.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/ExtensionHandlerJava.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/DTMAxisIterNodeList.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorCharacters.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FunctionOneArg.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/DTMChildIterNodeList.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/MarkerInstruction.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/SingleNodeCounter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/XMLStringDefault.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/XSLInfiniteLoopException.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncId.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NameSpace.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/runtime/InternalRuntimeError.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncContains.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/ElemChoose.java
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/ExpressionOwner.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/EmptyIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/trace/TraceListenerEx3.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-

```

jar/org/apache/xpath/objects/XStringForChars.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/transformer/TransformState.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xslt/EnvironmentCheck.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/transformer/KeyTable.java
 *
 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/trace/TraceListenerEx2.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltDynamic.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/AttList.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/FilterParentPath.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xml/res/XMLErrorResources_sl.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/PipeDocument.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/UnsupportedElement.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/transformer/KeyManager.java
 *
 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOM.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage_ru.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/res/XPATHErrorResources_sl.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xml/utils/XMLStringFactory.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/res/XSLTErrorResources_sv.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/cmdline/getopt/GetOptsException.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/trax/SAX2DOM.java
 *
 /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xml/serializer/SerializerTrace.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/transformer/NodeSorter.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
 jar/org/apache/xml/dtm/ref/SecuritySupport.java
 * /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/UnImplNode.java

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_tr.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLSAXHandler.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource_Filter.java
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorPreserveSpace.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_hu.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SAXSourceLocator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/RedundentExprEliminator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SmartTransformerFactoryImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTranslate.java
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Include.java
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*/
/**

* 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/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
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*/

/*
* \$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;
    _xslt = 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
: _xsltC.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
: _xsltc.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) ? _xsltc.registerAttribute(name)
: _xsltc.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) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.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(ErrorMsg error) {
    _parser.reportError(Constants.ERROR,

```

```

error);
}

public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.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 ErrorMsg(ErrorMsg.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.DESCENDANT);  
      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.DESCENDANTORSELF,  
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.DESCENDANTORSELF,  
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.DESCENDANT); :}

```

```

| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

```

```

| 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/1127075804_1611755843.23/0/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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```

```
*/
```

```
// Proprietary, built in functions
```

```
/** current function string (Proprietary). */
```

Found in path(s):

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java
```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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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/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

```

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 * limitations under the License.
*/

```

```

/*
 * $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;
    }
}
}

```

Found in path(s):

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* 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/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java

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* limitations under the License.

*/

/*

```

* $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>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: 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/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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```
/*
 * 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/1127075804_1611755843.23/0/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.

*/

// Proprietary

/** The 'document-location()' id (Proprietary). */

Found in path(s):

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/FunctionTable.java
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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.
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* limitations under the License.
*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
No license file was found, but licenses were detected in source scan.
```

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```

```
*
* http://www.apache.org/licenses/LICENSE-2.0
*
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* 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] == '(') ?
            new Symbol(ss) : new Symbol(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-\u3094\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/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex

```

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Found in path(s):

* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
*
/opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html

1.303 hadoop 3.0.0-cdh6.3.0

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 */
```

Found in path(s):

- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/ConnectionHandle.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/StatementHandle.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/proxy/package-info.java
- *
- /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/ConnectionPartition.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/ReplayLog.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/BoneCPConfig.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/package-info.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/StatisticsMBean.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/DefaultConnectionStrategy.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/ConnectionStrategy.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/proxy/CallableStatementProxy.java
- *
- /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/UsernamePassword.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/hooks/ConnectionHook.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/hooks/AbstractConnectionHook.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/BoneCP.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/PoolUtil.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/IStatementCache.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/PreparedStatementHandle.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/StatementCache.java
- *
- /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/AbstractConnectionStrategy.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/MemorizeTransactionProxy.java
- * /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-jar/com/jolbox/bonecp/hooks/AcquireFailConfig.java

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* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/CloseThreadMonitor.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/proxy/PreparedStatementProxy.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/ConnectionMaxAgeThread.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/hooks/package-info.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
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/opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
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* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/CachedConnectionStrategy.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/Statistics.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/CustomThreadFactory.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/hooks/ConnectionState.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/proxy/ConnectionProxy.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/PoolWatchThread.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/BoneCPConfigMBean.java
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/opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/proxy/StatementProxy.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/BoneCPDataSource.java
* /opt/cola/permits/1128404392_1611918002.64/0/bonecp-0-8-0-release-sources-4-
jar/com/jolbox/bonecp/ConnectionTesterThread.java

```

1.305 asm 3.3.1

1.305.1 Available under license :

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ASM XML Adapter

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jar/org/objectweb/asm/commons/InstructionAdapter.java

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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java

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 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/util/CheckClassAdapter.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/analysis/BasicValue.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/MethodInsnNode.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/AnnotationVisitor.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
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 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/util/ASMifierMethodVisitor.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/signature/SignatureReader.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/AnnotationNode.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/signature/SignatureVisitor.java
 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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 * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/analysis/Subroutine.java
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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
*
/opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/ClassNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/tree/MemberNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/commons/Remapper.java
*
/opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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- * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
- jar/org/objectweb/asm/tree/analysis/package.html
- * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
- jar/org/objectweb/asm/tree/package.html
- * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
- jar/org/objectweb/asm/signature/package.html
- *
- /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/util/package.html
- * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
- jar/org/objectweb/asm/attrs/package.html
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jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
*

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jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/xml/Processor.java
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jar/org/objectweb/asm/util/ASMifiable.java

1.306 httpcomponents-core 4.4.13

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1.307 commons-lang3 2.6

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1.309 joda-time 2.9.9

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1.310 commons-logging 1.2

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java

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jar/org/apache/commons/logging/impl/NoOpLog.java
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jar/org/apache/commons/logging/impl/LogKitLogger.java
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jar/javax/annotation/concurrent/GuardedBy.java  
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-  
jar/javax/annotation/concurrent/ThreadSafe.java  
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-  
jar/javax/annotation/concurrent/Immutable.java  
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*/
/**
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 *         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 desc
 *         the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

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 */

```

```

/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 *
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).

```

```

* @param signature
*     the method's signature. May be <tt>null</tt>.
* @param exceptions
*     the internal names of the method's exception classes (see
*     { @link Type#getInternalName() getInternalName }). May be
*     <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

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*/
/****

```

```

* Constructs a new { @link ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the { @link #ClassNode(int)}

```



```
* version.  
*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java  
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
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*/
```

```
/**
```

```
* Constructs a new {@link Textifier}. Subclasses must not use this  
* constructor. Instead, they must use the {@link #Textifier(int)}  
* version.  
*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.
```

*/

Found in path(s):

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifier.java
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*/

/**

* Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must

* not use this constructor</i>. Instead, they must use the

* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}

* version.

*

* @param typeRef

* a reference to the annotated type. See {@link TypeReference}.

* @param typePath

* the path to the annotated type argument, wildcard bound, array

* element type, or static inner type within 'typeRef'. May be

```

*      <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
*      the first instructions corresponding to the continuous ranges
*      that make the scope of this local variable (inclusive).
* @param end
*      the last instructions corresponding to the continuous ranges
*      that make the scope of this local variable (exclusive). This
*      array must have the same size as the 'start' array.
* @param index
*      the local variable's index in each range. This array must have
*      the same size as the 'start' array.
* @param desc
*      the class descriptor of
the annotation class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

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```

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java

*

/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IntInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java

*

/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Value.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java

*

/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureReader.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LdcInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TypeAnnotationNode.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
*

/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/tree/TypeInsnNode.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/util/TraceSignatureVisitor.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/tree/InsnNode.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/optimizer/MethodOptimizer.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/util/CheckFieldAdapter.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Frame.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/util/CheckMethodAdapter.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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 jar/org/objectweb/asm/tree/AnnotationNode.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldVisitor.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Context.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/util/TraceMethodVisitor.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handler.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/tree/MethodNode.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnList.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
 *
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodWriter.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/signature/SignatureWriter.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Item.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Edge.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/tree/FrameNode.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/optimizer/ConstantPool.java
 *
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureVisitor.java
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*/

/**

* Creates a new { @link AnalyzerAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.

*

* @param owner

*

the owner's class name.

* @param access

* the method's access flags (see { @link Opcodes}).

* @param name

* the method's name.


```
* @param desc
*     the method's descriptor (see { @link Type Type}).
* @param mv
*     the method visitor to which this adapter delegates calls. May
*     be <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
```

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/package.html
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- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-frames.properties
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-resize.properties
- *
- /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink.properties
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-writer.properties

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypeReference.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifiable.java

1.320 javassist 3.25.0-GA

1.320.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /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
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
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
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/MultiArrayType.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/CondExpr.java
```

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformReadField.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-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
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/MethodCall.java
 * /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
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Loader.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Visitor.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/ProxyObjectOutputStream.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Javac.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CodeConverter.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ByteArray.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Translator.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/ClassMetaobject.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AccessFlag.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ASTree.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/StackMap.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Metalevel.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/NotFoundException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Variable.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/DeprecatedAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ASTList.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/CodeAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFilePrinter.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Sample.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

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jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyFactory.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClassType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewMethod.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewConstructor.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/ControlFlow.java
* /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
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/CodeGen.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/FieldInfo.java

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationImpl.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewClass.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/ProxyObject.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypeTag.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/SubroutineScanner.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/NoFieldException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMember.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/ConstructorCall.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/SoftValueHashMap.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/DotClass.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/IntQueue.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPool.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/URLClassPath.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/SyntheticAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/ExprEditor.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ProceedHandler.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformNew.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformAccessArrayField.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AttributeInfo.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Subroutine.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtField.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/DefinePackageHelper.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LineNumberAttribute.java

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Expr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFile.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Modifier.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationsWriter.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SyntaxError.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/framedump.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/FieldAccess.java
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jar/javassist/bytecode/annotation/DoubleMemberValue.java

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1.324 commons-lang3 3.10

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Found in path(s):

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* /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-jar/javax/validation/metadata/CascadableDescriptor.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java  
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java  
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

1.326 asm 3.1

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/ASMContentHandler.java
*
/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
 *
 /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ByteVector.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Interpreter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodWriter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
 *
 /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceAbstractVisitor.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/InsnList.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/AbstractVisitor.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
 *
 /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SmallSet.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Frame.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/LocalVariableNode.java
 * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifierMethodVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java
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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/GeneratorAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/ClassNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Edge.java
*
/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/MemberNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-

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jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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jar/org/objectweb/asm/signature/SignatureReader.java
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jar/org/objectweb/asm/util/ASMifierFieldVisitor.java
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jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
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jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Handler.java
*
/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassReader.java
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jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/util/ASMifierClassVisitor.java

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Label.java

*

/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/EmptyVisitor.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassAdapter.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassWriter.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodAdapter.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java

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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/InsnNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/LineNumberNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/Method.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifiable.java

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Found in path(s):

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/package.html

* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/attrs/package.html
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/package.html
*
/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/package.html
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/package.html

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ASM XML Adapter

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1.327 asm-util 7.1

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```
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jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/CheckMethodAdapter.java
*
/opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/Textifier.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
*
/opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/CheckClassAdapter.java
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jar/org/objectweb/asm/util/ASMifierSupport.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/ASMifiable.java
*
/opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TextifierSupport.java

1.328 asm 7.1

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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Frame.java
*
/opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Context.java

* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/SymbolTable.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Symbol.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassVisitor.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodVisitor.java
 *
 /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Handle.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Constants.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Label.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleVisitor.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Attribute.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
 jar/org/objectweb/asm/signature/SignatureVisitor.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypePath.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
 jar/org/objectweb/asm/MethodTooLargeException.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
 jar/org/objectweb/asm/signature/SignatureWriter.java
 *
 /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassReader.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ConstantDynamic.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
 jar/org/objectweb/asm/signature/SignatureReader.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldWriter.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleWriter.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/CurrentFrame.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
 jar/org/objectweb/asm/ClassTooLargeException.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypeReference.java
 * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ByteVector.java
 *
 /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Opcodes.java
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- * /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/signature/package.html

1.329 asm-analysis 7.1

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/**  
 * Constructs a new { @link BasicInterpreter } for the latest ASM API version. <i>Subclasses must  
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 * version.  
 */
```

Found in path(s):

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/**  
 * Constructs a new { @link SourceInterpreter } for the latest ASM API version. <i>Subclasses must  
 * not use this constructor</i>. Instead, they must use the { @link #SourceInterpreter(int) }  
 * version.  
 */
```

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```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
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```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/SmallSet.java
```

```
*  
/opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/Subroutine.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/BasicValue.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/Frame.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/Value.java
```

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/Interpreter.java
```

```
*  
/opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/Analyzer.java
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1.330 asm-commons 7.1

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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/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
```

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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/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-  
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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/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-  
jar/org/objectweb/asm/commons/GeneratorAdapter.java
```

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jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/StaticInitMerger.java
*
/opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/MethodRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ClassRemapper.java
*
/opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
*
/opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
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jar/org/objectweb/asm/commons/package.html

1.331 asm-tree 7.1

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jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-
jar/org/objectweb/asm/tree/LdcInsnNode.java

*

/opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-
jar/org/objectweb/asm/tree/JumpInsnNode.java

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jar/org/objectweb/asm/tree/AbstractInsnNode.java

* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-
jar/org/objectweb/asm/tree/MethodNode.java

* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-
jar/org/objectweb/asm/tree/ParameterNode.java

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jar/org/objectweb/asm/tree/TypeAnnotationNode.java

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 *
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 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
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 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/Util.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/IincInsnNode.java
 *
 /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
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 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ModuleRequireNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ModuleProvideNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
 *
 /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LabelNode.java
 * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java

* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ClassNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ModuleNode.java

1.332 xmlgraphics-commons 2.3

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1.335 javax-ws-rs-api 2.0.1

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1.336 commons-lang3 3.7

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1.337 woodstox-core 5.0.3

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Found in path(s):

* /opt/cola/permits/1135953508_1613640887.59/0/woodstox-core-5-0-3-3-jar/META-INF/maven/com.fasterxml.woodstox/woodstox-core/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1472011116283

Build-Jdk: 1.7.0_79

Built-By: tatu

Bundle-Description: Woodstox is a high-performance XML processor thatimp

lements Stax (JSR-173), SAX2 and Stax2 APIs
Bundle-DocURL: <https://github.com/FasterXML/woodstox>
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>
Bundle-ManifestVersion: 2
Bundle-Name: Woodstox
Bundle-SymbolicName: com.fasterxml.woodstox.woodstox-core
Bundle-Vendor: FasterXML
Bundle-Version: 5.0.3
Created-By: Apache Maven Bundle Plugin
Export-Package: com.ctc.wstx.api;version="5.0.3",com.ctc.wstx.cfg;version="5.0.3",com.ctc.wstx.compat;version="5.0.3",com.ctc.wstx.dom;version="5.0.3",com.ctc.wstx.dtd;version="5.0.3",com.ctc.wstx.ent;version="5.0.3",com.ctc.wstx.evt;version="5.0.3",com.ctc.wstx.exc;version="5.0.3",com.ctc.wstx.io;version="5.0.3",com.ctc.wstx.msv;version="5.0.3",com.ctc.wstx.osgi;version="5.0.3",com.ctc.wstx.sax;version="5.0.3",com.ctc.wstx.sr;version="5.0.3",com.ctc.wstx.stax;version="5.0.3",com.ctc.wstx.sw;version="5.0.3",com.ctc.wstx.util;version="5.0.3"
Implementation-Build-Date: 2016-08-24 03:58:19+0000
Implementation-Title: Woodstox
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.woodstox
Implementation-Version: 5.0.3
Import-Package: com.sun.msv.grammar;version="[2013.6,2014)";resolution:=optional,com.sun.msv.grammar.trex;version="[2013.6,2014)";resolution:=optional,com.sun.msv.grammar.xmlschema;version="[2013.6,2014)";resolution:=optional,com.sun.msv.reader;version="[2013.6,2014)";resolution:=optional,com.sun.msv.reader.trex.ng;version="[2013.6,2014)";resolution:=optional,com.sun.msv.reader.util;version="[2013.6,2014)";resolution:=optional,com.sun.msv.reader.xmlschema;version="[2013.6,2014)";resolution:=optional,com.sun.msv.util;version="[2013.6,2014)";resolution:=optional,com.sun.msv.verifier;version="[2013.6,2014)";resolution:=optional,com.sun.msv.verifier.regex;version="[2013.6,2014)";resolution:=optional,com.sun.msv.verifier.regex.xmlschema;version="[2013.6,2014)";resolution:=optional,javax.xml.namespace;resolution:=optional,javax.xml.parsers;resolution:=optional,javax.xml.stream,javax.xml.stream.events,javax.xml.stream.util,javax.xml.transform;resolution:=optional,javax.xml.transform.dom;resolution:=optional,javax.xml.transform.sax;resolution:=optional,javax.xml.transform.stream;resolution:=optional,org.codehaus.stax2;version="[3.1,4)",org.codehaus.stax2.io;version="[3.1,4)",org.codehaus.stax2.osgi;version="[3.1,4)",org.codehaus.stax2.ri;version="[3.1,4)",org.codehaus.stax2.ri.dom;version="[3.1,4)",org.codehaus.stax2.ri.evt;version="[3.1,4)",org.codehaus.stax2.ri.typed;version="[3.1,4)",org.codehaus.stax2.typed;version="[3.1,4)",org.codehaus.stax2.validation;version="[3.1,4)",org.osgi.framework;version="[1.4,2)";resolution:=optional,org.relaxng.datatype;resolution:=optional,org.w3c.dom;resolution:=optional,org.xml.sax;resolution:=optional,org.xml.sax.ext;resolution:=optional,org.xml.sax.helpers;resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Specification-Title: Woodstox
Specification-Vendor: FasterXML
Specification-Version: 5.0.3
Tool: Bnd-2.3.0.201405100607
X-Compile-Source-JDK: 1.6
X-Compile-Target-JDK: 1.6

Found in path(s):

* /opt/cola/permits/1135953508_1613640887.59/0/woodstox-core-5-0-3-3-jar/META-INF/MANIFEST.MF

1.338 servlet-api 2.4

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* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/http/HttpSessionContext.java

* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletContextAttributeListener.java

* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletRequestListener.java

*

/opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/http/HttpServlet.java

* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletOutputStream.java

* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletResponse.java

* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletInputStream.java

* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-

```

jar/javax/servlet/http/HttpSessionAttributeListener.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletContextAttributeEvent.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletContext.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpSessionBindingListener.java
*
/opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/Filter.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpServletRequest.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpServletRequestWrapper.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletRequest.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/Servlet.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletRequestWrapper.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpServletResponseWrapper.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletRequestAttributeListener.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/http/HttpSession.java
*
/opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpSessionBindingEvent.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/http/HttpUtils.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletContextListener.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpServletResponse.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/RequestDispatcher.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/FilterChain.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletException.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletResponseWrapper.java
*
/opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletContextEvent.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/GenericServlet.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpSessionActivationListener.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/UnavailableException.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/http/Cookie.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletConfig.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletRequestAttributeEvent.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/FilterConfig.java

```

```
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpSessionEvent.java
*
/opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/HttpSessionListener.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/ServletRequestEvent.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/SingleThreadModel.java
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```
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/LocalStrings_ja.properties
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/LocalStrings_ja.properties
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/LocalStrings_es.properties
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/LocalStrings_fr.properties
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/LocalStrings.properties
*
/opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/LocalStrings_fr.properties
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-
jar/javax/servlet/http/LocalStrings.properties
```

1.339 stax 3.1.4

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- * /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingReader.java

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- * /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2Util.java
- * /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingWriter.java

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/* Stax2 API extension for Streaming Api for Xml processing (StAX).

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Found in path(s):

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterAdapter.java

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java

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/* Reference Implementation of

* Stax2 extension API (for basic Stax API, JSR-173)

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/ValueEncoderFactory.java

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/* StAX2 extension for StAX API (JSR-173).

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Found in path(s):

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/Base64DecoderBase.java

```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java
*
/opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/util/StreamWriterDelegate.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/NumberUtil.java
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```

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```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/typed/Base64Variant.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/typed/Base64Variants.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/XMLStreamReader2.java
*
/opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/typed/TypedXMLStreamReader.java
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```

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/ValueDecoderFactory.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/AsciiValueEncoder.java
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Found in path(s):

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/Stax2EventReaderImpl.java

1.340 commons-beanutils 1.7.0

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- * /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/LazyDynaClass.java
- * /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/LazyDynaMap.java
- * /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/LazyDynaBean.java

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- * /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/collections/Buffer.java

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/collections/ArrayStack.java

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/AbstractArrayConverter.java

*

/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/DoubleConverter.java

* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/LongLocaleConverter.java

* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BasicDynaBean.java

* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ContextClassLoaderLocal.java

* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/SqlTimeLocaleConverter.java

* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BeanUtils.java

* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-

jar/org/apache/commons/beanutils/locale/LocaleConvertUtils.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/BigIntegerConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/IntegerArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/DateLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/DoubleArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/DoubleLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/ConvertUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/BigDecimalLocaleConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/CharacterConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/MethodUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/LocaleConvertUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/ByteLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/PropertyUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/FloatLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/BigDecimalConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/SqlDateLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/JDBCDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/ConvertingWrapDynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/WrapDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/MappedPropertyDescriptor.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/SqlTimeConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/FloatConverter.java
*

/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/DynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/DynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BeanUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/LongConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/LocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/CharacterArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/ShortLocaleConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/PropertyUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BasicDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ConstructorUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ConvertUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/FileConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/BooleanConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/BooleanArrayConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/LongArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/StringConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/WrapDynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/MutableDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/NestedNullException.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/URLConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/SqlDateConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/BigIntegerLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-

jar/org/apache/commons/beanutils/converters/ShortArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/IntegerLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/ResultSetIterator.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/Converter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/ClassConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/FloatArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/BeanAccessLanguageException.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/ShortConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/SqlTimestampLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/StringLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/converters/DecimalLocaleConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/LocaleBeanUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/ConversionException.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/SqlTimestampConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/ByteArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/IntegerConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/DynaProperty.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/StringArrayConverter.java
*
/opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/converters/ByteConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/locale/BaseLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-
jar/org/apache/commons/beanutils/RowSetDynaClass.java

1.341 commons-configuration 1.6

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1.342 commons-beanutils-core 1.8.0

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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java

*

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jar/javassist/bytecode/annotation/ArrayMemberValue.java
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jar/javassist/bytecode/annotation/DoubleMemberValue.java
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jar/javassist/bytecode/annotation/MemberValue.java
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jar/javassist/bytecode/annotation/ByteMemberValue.java
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* /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
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
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
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jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/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-
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* /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

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* /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-
jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/Loader.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/Declarator.java
*
/opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/Stmnt.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/AnnotationDefaultAttribute.java
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/opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtField.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtClass.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/framedump.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/SignatureAttribute.java
*
/opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-

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jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/InstanceOfExpr.java
*
/opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtClassType.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/AttributeInfo.java
*
/opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/tools/web/BadHttpRequest.java
*
/opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/Modifier.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtMethod.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/NewExpr.java

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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/KeywordTable.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
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 /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/NoSuchClassError.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/CannotReflectException.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ExceptionsAttribute.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtConstructor.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/runtime/Desc.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/RuntimeSupport.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/Lex.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
 *
 /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationsWriter.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectInputStream.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ExceptionTable.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/BadBytecode.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiType.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/AccessFlag.java
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 /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/MemberCodeGen.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Executor.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/TokenId.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/JvstCodeGen.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewWrappedConstructor.java

* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/SubroutineScanner.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformBefore.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/Transformer.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/FieldDecl.java
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 /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/FieldInfo.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/CodeIterator.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyObject.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/MethodInfo.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Sample.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Metaobject.java
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 /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/SerialVersionUID.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/ConstructorCall.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/Opcodes.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/ObjectNotFoundException.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformNew.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/StringL.java
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 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ByteArrayClassPath.java
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 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassPoolTail.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Loader.java
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* /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/SourceFileAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtBehavior.java
*
/opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassMap.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/NewArray.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/scopedpool/ScopedClassPoolRepository.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/CtPrimitiveType.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/Dump.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
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jar/javassist/bytecode/ConstPool.java

* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/RemoteRef.java
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 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/CompileError.java
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 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/BinExpr.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/runtime/Inner.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassPath.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/CannotInvokeException.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ClassFilePrinter.java
 * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/CodeAttribute.java
 * /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
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 * /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
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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

```

1.344 scala-reflect 2.11.12

1.344.1 Available under license :

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```

/** The entry point into Scala runtime reflection.
 *
 * To use Scala runtime reflection, simply use or import `scala.reflect.runtime.universe._`
 *
 * See [[scala.reflect.api.Universe]] or the
 * [[http://docs.scala-lang.org/overviews/reflection/environment-universes-mirrors.html Reflection Guide:
Universes]]
 * for more details.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135959082_1613641379.79/0/scala-reflect-2-11-12-sources-4-
jar/scala/reflect/runtime/package.scala

```

1.345 xmlschema 2.2.5

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1.346 jersey-guava 2.25.1

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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/Ascii.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/annotations/package-info.java
- *
- /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingSetMultimap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Equivalence.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ListeningExecutorService.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingBlockingQueue.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedMapDifference.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/UnmodifiableListIterator.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/ForwardingSortedSetMultimap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableCollection.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/Monitor.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/package-info.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/package-info.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/Atomics.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RowSortedTable.java
- *
- /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Strings.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/UncaughtExceptionHandler.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-

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jar/jersey/repackaged/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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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/io/ByteProcessor.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/LocalCache.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/escape/Platform.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractService.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ImmutableTable.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/ImmutableSetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Splitter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingFuture.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/annotations/GwtCompatible.java
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jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.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/ImmutableRangeMap.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/CartesianList.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/FilteredKeyMultimap.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/hash/SipHashFunction.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/hash/ChecksumHashFunction.java
```

```
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/io/BaseEncoding.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/ImmutableRangeSet.java
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jar/jersey/repackaged/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/net/MediaType.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/AsyncFunction.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Absent.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/math/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Enums.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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jar/jersey/repackaged/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/math/IntMath.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/Cache.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableMultiset.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/RemovalListener.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/FutureFallback.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Optional.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/math/LongMath.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionError.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/PairwiseEquivalence.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/reflect/Types.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/package-info.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/hash/AbstractCompositeHashFunction.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Present.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/AbstractLoadingCache.java
* /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-
jar/jersey/repackaged/com/google/common/base/Ticker.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/cache/ForwardingCache.java
*
/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/eventbus/SubscriberExceptionHandler.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/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-jar/jersey/repackaged/com/google/common/reflect/TypeVisitor.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntry.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/Runnables.java

* /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/eventbus/SubscriberExceptionContext.java
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jar/jersey/repackaged/com/google/common/collect/AbstractTable.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Utf8.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Verify.java

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jar/jersey/repackaged/com/google/common/collect/FilteredMultimapValues.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/VerifyException.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/hash/HashingInputStream.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/hash/Murmur3_32HashFunction.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/Functions.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/UsingToStringOrdering.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ForwardingMap.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/ForwardingConcurrentMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Throwables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/io/Closeables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/EnumHashBiMap.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/Multisets.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/NaturalOrdering.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/eventbus/package-info.java
*

/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/eventbus/DeadEvent.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/CheckedFuture.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableListMultimap.java
- *
- /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/StandardTable.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Serialization.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Chars.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableEntry.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/InetAddresses.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Tables.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMultimap.java
- *
- /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AbstractCheckedFuture.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Converter.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/SingletonImmutableBiMap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/Range.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/MultiReader.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableBiMap.java
- *
- /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Bytes.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableBiMap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMapValues.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/net/PercentEscaper.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/primitives/Doubles.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/Joiner.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/ImmutableCollection.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/UnicodeEscaper.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/CharMatcher.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/FileBackedOutputStream.java

* /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

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/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-

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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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jar/jersey/repackaged/com/google/common/collect/Interners.java
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jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java

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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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jar/jersey/repackaged/com/google/common/collect/SparseImmutableTable.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/MapMakerInternalMap.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/Cut.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/MapMaker.java

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jar/jersey/repackaged/com/google/common/collect/RegularImmutableTable.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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```
*/
```

```
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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/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/Striped.java
```

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```
*/
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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/EmptyContiguousSet.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/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-jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.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/FunctionalEquivalence.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/GenericMapMaker.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/SortedMultisets.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/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 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
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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/Hashing.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/io/AppendableWriter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
*

/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
* /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
*

/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
* /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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jar/jersey/repackaged/com/google/common/cache/Weigher.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/math/MathPreconditions.java
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jar/jersey/repackaged/com/google/common/base/SmallCharMatcher.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/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
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/html/package-info.java
- * /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
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredEntrySetMultimap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/xml/package-info.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredEntryMultimap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeTraverser.java
- *
- /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/ByteSource.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableAsList.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingBlockingDeque.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
- * /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableMap.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/cache/LongAddable.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/Closer.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/StandardSystemProperty.java
*
/opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/AsyncSettableFuture.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/ImmutableTypeToInstanceMap.java
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*/

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/hash/package-info.java

1.347 parquet-format 2.4.0

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1.348 hive-standalone-metastore 3.1.2

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1.350 hive-llap-client 3.1.2

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1.351 open-csv 2.3

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* @author Glen Smith
*
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* /opt/cola/permits/1136206716_1613708914.54/0/opencsv-2-3-sources-3-jar/au/com/bytecode/opencsv/ResultSetHelper.java

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* /opt/cola/permits/1136206716_1613708914.54/0/opencsv-2-3-sources-3-jar/au/com/bytecode/opencsv/bean/ColumnPositionMappingStrategy.java

* /opt/cola/permits/1136206716_1613708914.54/0/opencsv-2-3-sources-3-jar/au/com/bytecode/opencsv/bean/CsvToBean.java

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* This just implements splitting a single line into fields.

*

* @author Glen Smith

* @author Rainer Pruy

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*

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1.352 parquet-hadoop-bundle 1.10.0

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1.353 orc-shims 1.5.6

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* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/SingleBufferInputStream.java

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*
/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/ShouldNeverHappenException.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/SemanticVersion.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/Strings.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/Files.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/IOExceptionUtils.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/ConcatenatingByteArrayCollector.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/util/DynConstructors.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/WildcardPath.java
*
/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/GlobNode.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/VersionParser.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/ByteBufferAllocator.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/GlobParser.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/ByteBufferInputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/GlobExpander.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/util/DynMethods.java
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*

/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/Preconditions.java

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* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/BytesInput.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/hadoop/metadata/ColumnPath.java

*

/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/BytesUtils.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/LittleEndianDataOutputStream.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/ParquetRuntimeException.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/Closeables.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/LittleEndianDataInputStream.java

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/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/io/PositionOutputStream.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/hadoop/metadata/CompressionCodecName.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/MultiBufferInputStream.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/io/DelegatingSeekableInputStream.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/io/InputFile.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/io/OutputFile.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/io/SeekableInputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/io/DelegatingPositionOutputStream.java
*
/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/hadoop/codec/CompressionCodecNotSupportedException.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/compression/CompressionCodecFactory.java

1.358 hive-serde 3.1.2

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```

Found in path(s):

```

* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-
jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-
jar/org/slf4j/impl/SimpleLoggerFactory.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-
jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-
jar/org/slf4j/impl/StaticMDCBinder.java

```

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Found in path(s):

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jar/org/slf4j/impl/SimpleLogger.java

1.368 nimbus-jose-jwt 4.41.1

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1.369 zookeeper-jute 3.5.6

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1.370 hk2 2.6.1

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1.371 spring-bridge 2.6.1

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1.372 model 2.6.1

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1.373 hk2-runlevel 2.6.1

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1.374 curator-client 2.12.0

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1.381 kerby-asn1 1.1.0

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1.382 kerb-crypto 1.1.0

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1.388 kerby-config 1.1.0

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*

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*

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* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/JCommander.java
* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/NoConverter.java
* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/Parameter.java
*
/opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/ParameterDescription.java
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* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/ISO8601DateConverter.java
* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/ParameterException.java
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* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/Parameters.java
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* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/BigDecimalConverter.java
*
/opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/FileConverter.java

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The Orekit library is described at:

<https://www.orekit.org/forge/projects/orekit>

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1.409 kerb-util 1.0.1

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1.412 jetty-sslengine 6.1.26

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```
* /opt/cola/permits/1137305731_1614052349.54/0/jetty-sslengine-6-1-26-sources-4-  
jar/org/mortbay/jetty/security/SslHttpChannelEndPoint.java
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/**
```

```
* By default, we're confidential, given we speak SSL. But, if we've been  
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* client certs providing CONFIDENTIAL, whereas another SSL listener not  
* requiring client certs providing mere INTEGRAL constraints.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1137305731_1614052349.54/0/jetty-sslengine-6-1-26-sources-4-  
jar/org/mortbay/jetty/security/SslSelectChannelConnector.java
```

1.413 kerb-server 1.0.1

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```
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* /opt/cola/permits/1126356109_1611624421.8/0/jpam-1-1-src-zip/JPam-
1.1/java/net/sf/jpam/jaas/JpamLoginModule.java
* /opt/cola/permits/1126356109_1611624421.8/0/jpam-1-1-src-zip/JPam-1.1/java/net/sf/jpam/PamReturnValue.java
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1.415 kerb-core 1.0.1

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1.427 commonj-sdo 2.1.1

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Revision level 1.2, last updated on 2009/01/13

Changed the URL of the Artifacts.

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1.428 twill-discovery-core 0.6.0-incubating

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* /opt/cola/permits/1137747390_1614121768.73/0/twill-discovery-core-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/InMemoryDiscoveryService.java

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/opt/cola/permits/1137747390_1614121768.73/0/twill-discovery-core-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/package-info.java

* /opt/cola/permits/1137747390_1614121768.73/0/twill-discovery-core-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/DefaultServiceDiscovered.java

* /opt/cola/permits/1137747390_1614121768.73/0/twill-discovery-core-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/ZKDiscoveryService.java

* /opt/cola/permits/1137747390_1614121768.73/0/twill-discovery-core-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/DiscoverableWrapper.java

* /opt/cola/permits/1137747390_1614121768.73/0/twill-discovery-core-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/DiscoverableAdapter.java

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* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/DefaultTwillSpecification.java
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/opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/Racks.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/ClassAcceptor.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/ServiceController.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/SecureStore.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/DefaultEventHandlerSpecification.java
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* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/RunIds.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/DefaultLocalFile.java
*
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* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
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jar/org/apache/twill/api/Hosts.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/EventHandler.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillSpecification.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillPreparer.java
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/opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillRunner.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/LocalFile.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/package-info.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/AbstractTwillRunnable.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillController.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/DefaultResourceSpecification.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/logging/LogHandler.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillContext.java
*
/opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/EventHandlerSpecification.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/SecureStoreUpdater.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/Command.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/RunId.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-

```

```

jar/org/apache/twill/api/TwillRunnable.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/RuntimeSpecification.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/logging/LogThrowable.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/DefaultRuntimeSpecification.java
*
/opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/package-info.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/ResourceReport.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/logging/PrinterLogHandler.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/logging/LogEntry.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/EventHandlerContext.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillRunnerService.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/logging/package-info.java
*
/opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillRunnableSpecification.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/ElectionHandler.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/api/TwillApplication.java
* /opt/cola/permits/1137746702_1614121526.26/0/twill-api-0-6-0-incubating-sources-3-
jar/org/apache/twill/internal/DefaultTwillRunResources.java

```

1.431 twill-zookeeper 0.6.0-incubating

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* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ForwardingZKClient.java

*

/opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/BasicNodeChildren.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/OperationFuture.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/SettableOperationFuture.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/NamespaceZKClient.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ZKClients.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/InMemoryZKServer.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ZKClient.java

*

/opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ForwardingZKClientService.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/DefaultZKClientService.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ZKClientServices.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/package-info.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/BasicNodeData.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/KillZKSession.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/LeaderElection.java

*

/opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/NodeData.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/RetryUtils.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/package-info.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/RewatchOnExpireWatcher.java
* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/FailureRetryZKClient.java
* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/RetryStrategies.java
* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/NodeChildren.java
*

/opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ZKClientService.java
* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ZKOperations.java
* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/RewatchOnExpireZKClient.java
* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/RetryStrategy.java

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* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/BasicACLData.java

*

/opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/AbstractZKClient.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/zookeeper/ACLData.java

* /opt/cola/permits/1137746061_1614121450.21/0/twill-zookeeper-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/zookeeper/ReentrantDistributedLock.java

1.432 twill-common 0.6.0-incubating

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```
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/filesystem/LocationFactories.java
*
/opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/common/Threads.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/filesystem/ForwardingLocationFactory.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/filesystem/LocalLocation.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/common/Cancellable.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/filesystem/LocalLocationFactory.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/filesystem/Location.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2-
jar/org/apache/twill/filesystem/LocationFactory.java
```

1.433 twill-discovery-api 0.6.0-incubating

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* /opt/cola/permits/1137747599_1614121902.52/0/twill-discovery-api-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/DiscoveryServiceClient.java
*
/opt/cola/permits/1137747599_1614121902.52/0/twill-discovery-api-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/ServiceDiscovered.java
* /opt/cola/permits/1137747599_1614121902.52/0/twill-discovery-api-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/DiscoveryService.java
* /opt/cola/permits/1137747599_1614121902.52/0/twill-discovery-api-0-6-0-incubating-sources-2-jar/org/apache/twill/discovery/Discoverable.java

1.434 slider-core 0.90.2-incubating

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1.435 twill-core 0.6.0-incubating

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`*/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/CompositeService.java`

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Found in path(s):

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/kafka/client/IntegerEncoder.java

*

/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/ProcessController.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/LogEntryDecoder.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/logging/Loggings.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/kafka/client/IntegerPartitioner.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/Configs.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/kafka/client/KafkaPublisher.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/ContainerLiveNodeData.java

*

/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/JvmOptionsCodec.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/TwillSpecificationAdapter.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/ElectionRegistry.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/kafka/client/ByteBufferEncoder.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/kafka/client/ZKBrokerService.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/launcher/TwillLauncher.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/ResourceSpecificationCodec.java

*

/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/kafka/client/KafkaConsumer.java

* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/state/SystemMessages.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/state/Message.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/ArgumentsCodec.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/AbstractZKServiceController.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/state/SimpleMessage.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/AbstractTwillController.java
 *
 /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/BasicTwillContext.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/ResourceReportCodec.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/kafka/client/BrokerInfo.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/Arguments.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/kafka/client/package-info.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/DefaultLogThrowable.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/AbstractExecutionServiceController.java
 *
 /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/ContainerInfo.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/json/TwillRunnableSpecificationCodec.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/state/MessageCodec.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/Utils/Paths.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/Utils/Dependencies.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/Services.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/kafka/client/KafkaClientService.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/LogOnlyEventHandler.java
 *
 /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-jar/org/apache/twill/internal/kafka/client/SimpleKafkaPublisher.java
 * /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-


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jar/org/apache/twill/internal/TwillContainerLauncher.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/state/Messages.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/AbstractTwillService.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/JsonUtils.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/Constants.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/LocalFileCodec.java
*
/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/DefaultResourceReport.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/kafka/client/ZKKafkaClientService.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/logging/KafkaAppender.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/kafka/client/TopicPartition.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/kafka/EmbeddedKafkaServer.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/TwillSpecificationCodec.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/ListenerExecutor.java
*
/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/kafka/client/FetchedMessage.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/kafka/client/package-info.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/state/MessageCallback.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/EnvKeys.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/SingleRunnableApplication.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/EnvContainerInfo.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/ILoggingEventSerializer.java
*
/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/ServiceListenerAdapter.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/StackTraceElementCodec.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/package-info.java

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* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/kafka/client/BasicFetchedMessage.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/TwillRunResourcesCodec.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/launcher/FindFreePort.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/ProcessLauncher.java
*
/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/TwillContainerController.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/kafka/client/BrokerService.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/kafka/client/KafkaClient.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/Utils/Networks.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/kafka/client/Compression.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/ResourceReportAdapter.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/RuntimeSpecificationCodec.java
*
/opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/JvmOptions.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/Utils/Instances.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/kafka/client/SimpleKafkaConsumer.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/ZKMessages.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/ApplicationBundler.java
* /opt/cola/permits/1137746303_1614121688.86/0/twill-core-0-6-0-incubating-sources-2-
jar/org/apache/twill/internal/json/LogThrowableCodec.java

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1.436 annotations 13.0

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* /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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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/Nls.java

*

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* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/jetbrains/annotations/Contract.java

1.437 asm 6.0

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*/

/**

* Creates a new { @link GeneratorAdapter}. *Subclasses must not use this*

* constructor</i>. Instead, they must use the

* { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

* version.

*

* @param mv

* 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 desc

* the method's descriptor (see { @link Type Type}).

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/ASMifiable.java

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/Textifiable.java

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*/

/**

- * Creates a new JSRInliner. *<i>*Subclasses must not use this constructor*</i>*. Instead, they must use the
 - * {[@link #JSRInlinerAdapter\(int, MethodVisitor, int, String, String, String, String\[\]\)](#)}
 - * version.
- *
 - * [@param mv](#)
- *
 - the `MethodVisitor` to send the resulting inlined
 - * method code to (use `null` for none).
 - * [@param access](#)
 - * the method's access flags (see {[@link Opcodes](#)}). This
 - * parameter also indicates if the method is synthetic and/or
 - * deprecated.
 - * [@param name](#)
 - * the method's name.
 - * [@param desc](#)
 - * the method's descriptor (see {[@link Type](#)}).
 - * [@param signature](#)
 - * the method's signature. May be `null`.
 - * [@param exceptions](#)
 - * the internal names of the method's exception classes (see
 - * {[@link Type#getInternalName\(\) getInternalName](#)}). May be
 - * `null`.
 - * [@throws IllegalStateException](#)
 - * If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/package.html
- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/package.html
- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/package.html
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- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/signature/package.html
- * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/package.html

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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/CurrentFrame.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleOpenNode.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/MethodWriter.java
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/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Type.java
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jar/org/objectweb/asm/tree/TypeAnnotationNode.java
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jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
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jar/org/objectweb/asm/commons/ClassRemapper.java
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jar/org/objectweb/asm/tools/ModuleInfoBndPlugin.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java

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/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/StaticInitMerger.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/signature/SignatureVisitor.java
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/****

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*/

/**

* Constructs a new {@link LocalVariableAnnotationNode}. *<i>Subclasses must*
* not use this constructor*</i>. Instead, they must use the*

* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}

* version.

*

* @param typeRef

* a reference to the annotated type. See {@link TypeReference}.

* @param typePath

* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.

* @param start

* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).

* @param end

* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.

* @param index

* the local variable's index in each range. This array must have
* the same size as the 'start' array.

* @param desc

* the class descriptor of

the annotation class.

*/

Found in path(s):

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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 */

Found in path(s):

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/TypePath.java
 * /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/TypeReference.java

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Found in path(s):

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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*/

/**

* Creates a new {@link AnalyzerAdapter}. *<i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.*
* @param owner
*
* the owner's class name.
* @param access
* the method's access flags (see {@link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type Type}).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be `<tt>null</tt>`.
* @throws IllegalStateException
* If a subclass calls this constructor.
/

Found in path(s):

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/
/**
 * Constructs a new {@link Textifier}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/Textifier.java

```

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*/

/**

* Constructs a new { @link ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the { @link #ClassNode(int)}
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):

* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ClassNode.java

1.438 asm-commons 6.0

1.438.1 Available under license :

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*/

/**

* Constructs a new { @link ClassNode}. *Subclasses must not use this*
* constructor*</i>. Instead, they must use the { @link #ClassNode(int)}*
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):

* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/ClassNode.java

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* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tools/Retrofitter.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleProvideNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-

jar/org/objectweb/asm/signature/SignatureVisitor.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/analysis/Frame.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java

* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Attribute.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleOpenNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Handle.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java

* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/MethodRemapper.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tools/ModuleInfoBndPlugin.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-

jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/LabelNode.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/SignatureRemapper.java
*
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Handler.java

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*/

/**

* Constructs a new {@link LocalVariableAnnotationNode}. *Subclasses must*
* not use this constructor. Instead, they must use the
* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
* version.
*

* @param typeRef
* a reference to the annotated type. See {@link TypeReference}.
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* `null` if the annotation targets 'typeRef' as a whole.
* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).

```
* @param end
*     the last instructions corresponding to the continuous ranges
*     that make the scope of this local variable (exclusive). This
*     array must have the same size as the 'start' array.
* @param index
*     the local variable's index in each range. This array must have
*     the same size as the 'start' array.
* @param desc
*     the class descriptor of
the annotation class.
*/
```

Found in path(s):

```
*/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
```

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/**
```

```

* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.
*
* @param mv
*
the <code>MethodVisitor</code> to send the resulting inlined
*     method code to (use <code>>null</code> for none).
* @param access
*     the method's access flags (see { @link Opcodes}). This
*     parameter also indicates if the method is synthetic and/or
*     deprecated.
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type}).
* @param signature
*     the method's signature. May be <tt>>null</tt>.
* @param exceptions
*     the internal names of the method's exception classes (see
*     { @link Type#getInternalName() getInternalName}). May be
*     <tt>>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

```

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* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/xml/asm-xml.dtd

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```
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/TypeReference.java  
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/TypePath.java
```

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```
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* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/xml/SAXCodeAdapter.java  
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/xml/ASMContentHandler.java  
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/xml/SAXClassAdapter.java  
*  
/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/xml/SAXModuleAdapter.java
```


* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/xml/Processor.java

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* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/ASMifiable.java

* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/Textifiable.java

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 */

```

```

/**
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 *         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 desc
 *         the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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*/

/**

* Creates a new {@link AnalyzerAdapter}. *Subclasses must not use this*

* constructor*.* Instead, they must use the

* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}

* version.

*

* @param owner

*

the owner's class name.

* @param access

* the method's access flags (see {@link Opcodes}).

* @param name

```

*      the method's name.
* @param desc
*      the method's descriptor (see { @link Type Type}).
* @param mv
*      the method visitor to which this adapter delegates calls. May
*      be <tt>null</tt>.
* @throws IllegalStateException
*      If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

```

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```

```

*/

```

```

/**

```

```

* Constructs a new { @link Textifier}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the { @link #Textifier(int)}

```

```
* version.  
*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/util/Textifier.java
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*
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```
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/tree/analysis/package.html
```

```
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/package.html
```

```
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/tree/package.html
```

```
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-  
jar/org/objectweb/asm/util/package.html
```

```
*
```

/opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/package.html
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1.439 spring-context 5.2.5.RELEASE

1.439.1 Available under license :

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*/
/**
* { @link FactoryBean } that obtains a WebSphere { @link javax.management.MBeanServer }
* reference through WebSphere's proprietary { @code AdminServiceFactory } API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the { @code MBeanServer } for bean references.
*
* <p>This { @code FactoryBean } is
a direct alternative to { @link MBeanServerFactoryBean },
* which uses standard JMX 1.2 API to access the platform's { @link MBeanServer }.
*
* <p>See the javadocs for WebSphere's
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/AdminServiceFactory.html">{ @code AdminServiceFactory }</a>
* and
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/MBeanFactory.html">{ @code MBeanFactory }</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

```

Found in path(s):

```

* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

```

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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/validation/MapBindingResult.java

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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/LifecycleProcessor.java

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```
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/
```

Found in path(s):

```
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
```

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jar/org/springframework/format/AnnotationFormatterFactory.java
```

```
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/annotation/PropertySources.java
```

```
*
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/cache/interceptor/BasicOperation.java
```

```
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
```

```
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
```

jar/org/springframework/validation/annotation/Validated.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
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jar/org/springframework/cache/support/SimpleCacheManager.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scripting/support/StaticScriptSource.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/expression/AnnotatedElementKey.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/format/datetime/standard/DateTimeContext.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/format/support/FormattingConversionServiceFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/expression/MapAccessor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
*

/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/number/NumberStyleFormatter.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/support/ApplicationListenerDetector.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/stereotype/Controller.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/stereotype/Component.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jmx/export/ assembler/AbstractMBeanInfoAssembler.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/validation/DefaultMessageCodesResolver.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/config/FixedDelayTask.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactory.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/support/SimpleValueWrapper.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scripting/support/StandardScriptEvaluator.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-

jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jndi/TypeMismatchNamingException.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/format/number/CurrencyStyleFormatter.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/stereotype/Service.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/support/DelegatingMessageSource.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scheduling/config/Task.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scheduling/config/CronTask.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/access/ConnectorDelegate.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/ejb/access/LocalSlsbInvokerInterceptor.java

*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/index/CandidateComponentsIndex.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/stereotype/Indexed.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/event/SourceFilteringListener.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/support/NullValue.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/MessageSourceResolvable.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/stereotype/Repository.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/config/FixedRateTask.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
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/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scripting/ScriptFactory.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
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/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/instrument/classloading/weblogic/WebLogicClassPreProcessorAdapter.java

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 * /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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 * /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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 jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
 * /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
 jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
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jar/org/springframework/jmx/support/NotificationListenerHolder.java
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jar/org/springframework/context/annotation/Js330ScopeMetadataResolver.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/remoting/support/RemoteAccessor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/export/ assembler/MethodExclusionMBeanInfoAssembler.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/ui/ExtendedModelMap.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
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/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/ejb/access/SimpleRemoteSlsbInvokerInterceptor.java
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jar/org/springframework/remoting/support/RemoteExporter.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/interceptor/SimpleKey.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/ComponentScan.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/DeferredImportSelector.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-


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jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
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/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
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jar/org/springframework/context/annotation/PropertySource.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
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jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
*
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*/
/**

```

* Indicates that a component is only eligible for registration when all
 * { @linkplain #value specified conditions } match.
 *
 * <p>A condition is any state that can be determined programmatically
 * before the bean definition is due to be registered (see { @link Condition } for details).
 *
 *
 * <p>The { @code @Conditional } annotation may be used in any of the following ways:
 *
 * as a type-level annotation on any class directly or indirectly annotated with
 * { @code @Component }, including { @link Configuration @Configuration } classes
 * as a meta-annotation, for the purpose of composing custom stereotype
 * annotations
 * as a method-level annotation on any { @link Bean @Bean } method
 *
 *
 * <p>If a { @code @Configuration } class is marked with { @code @Conditional },
 * all of the { @code @Bean } methods, { @link Import @Import } annotations, and
 * { @link ComponentScan @ComponentScan } annotations associated with that
 * class will be subject to the conditions.
 *
 * <p>NOTE: Inheritance of { @code @Conditional } annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * { @code @Conditional } itself is not declared as
 * { @link java.lang.annotation.Inherited
 * @Inherited }; furthermore, any
 * custom composed annotation that is meta-annotated with
 * { @code @Conditional } must not be declared as { @code @Inherited }.
 *
 * @author Phillip Webb
 * @author Sam Brannen
 * @since 4.0
 * @see Condition
 */

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 jar/org/springframework/context/annotation/Conditional.java

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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/ui/ModelExtensions.kt

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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/support/MessageSourceResourceBundle.java
*
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/Lazy.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/DateTimeParser.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/event/EventListenerFactory.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-

jar/org/springframework/context/PayloadApplicationEvent.java
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jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
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jar/org/springframework/scripting/ScriptEvaluator.java
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jar/org/springframework/remoting/RemoteTimeoutException.java
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jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java

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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/remoting/RemoteConnectFailureException.java
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jar/org/springframework/context/event/EventExpressionEvaluator.java
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jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/ejb/access/SimpleRemoteStatelessSessionProxyFactoryBean.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/event/EventExpressionRootObject.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/DependsOn.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/Bean.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/validation/SmartValidator.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/standard/MonthFormatter.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/scheduling/annotation/EnableAsync.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/format/datetime/joda/JodaTimeConverters.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/MessageSourceAware.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-


```
jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jndi/JndiCallback.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/cache/interceptor/CacheOperation.java
*
/opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
```

1.440 asm 5.0.2

1.440.1 Available under license :

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 */
/**
```

```

* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.
*
* @param mv
*
the <code>MethodVisitor</code> to send the resulting inlined
*     method code to (use <code>>null</code> for none).
* @param access
*     the method's access flags (see { @link Opcodes}). This
*     parameter also indicates if the method is synthetic and/or
*     deprecated.
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type}).
* @param signature
*     the method's signature. May be <tt>>null</tt>.
* @param exceptions
*     the internal names of the method's exception classes (see
*     { @link Type#getInternalName() getInternalName}). May be
*     <tt>>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

```

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```

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```

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*/

/**

* Constructs a new {@link LocalVariableAnnotationNode}. *<i>Subclasses must*
* not use this constructor*</i>. Instead, they must use the*

* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}

* version.

*

* @param typeRef

* a reference to the annotated type. See {@link TypeReference}.

* @param typePath

* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.

* @param start

* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).

* @param end

* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.

* @param index

* the local variable's index in each range. This array must have
* the same size as the 'start' array.

* @param desc

* the class descriptor of

the annotation class.

*/

Found in path(s):

* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/shrink.properties
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-resize.properties
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
- *
- /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-frames.properties
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-writer.properties
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/shrink-annotations.properties

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*/

/**

* Creates a new {@link AnalyzerAdapter}. *Subclasses must not use this
* constructor*. Instead, they must use the

* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.

*

* @param owner

*

the owner's class name.

* @param access

* the method's access flags (see {@link Opcodes}).

* @param name

* the method's name.

* @param desc

* the method's descriptor (see {@link Type Type}).

* @param mv

* the method visitor to which this adapter delegates calls. May

* be `null`.

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/
/**
 * Constructs a new {@link Textifier}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/Textifier.java

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* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/ByteVector.java
*
/opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
*
/opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/AnnotationVisitor.java

* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Context.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Handle.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/Printer.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/Constant.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/Shrinker.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/InstructionAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Frame.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/analysis/BasicValue.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/ParameterNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/MethodVisitor.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/InsnList.java

* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/ConstantPool.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/FieldVisitor.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/LocalVariableNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/ClassWriter.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/TraceFieldVisitor.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Attribute.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/Method.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/optimizer/JarOptimizer.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-

jar/org/objectweb/asm/commons/Remapper.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/tree/InsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/ClassReader.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/tree/analysis/SourceValue.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/tree/analysis/Interpreter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/ClassVisitor.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/tree/JumpInsnNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/optimizer/MethodOptimizer.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/LabelNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/commons/AdviceAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Edge.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Handler.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Type.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/optimizer/ClassOptimizer.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Opcodes.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/tree/analysis/Subroutine.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/commons/RemappingClassAdapter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/util/TraceSignatureVisitor.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
 *
 /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/MethodWriter.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/optimizer/NameMapping.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
 jar/org/objectweb/asm/signature/SignatureReader.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Label.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/Item.java
 * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-

```
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/signature/SignatureWriter.java
*
/opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/FieldWriter.java
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```

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```
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* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/TypeReference.java
```

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* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/util/Textifiable.java

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- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/package.html
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/analysis/package.html
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/package.html
- *
- /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/signature/package.html
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/attrs/package.html
- * /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/commons/package.html

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*/

/**

- * Constructs a new { @link ClassNode}. *Subclasses must not use this*
- * constructor*</i>. Instead, they must use the { @link #ClassNode(int)}*
- * version.

```
*
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/ClassNode.java
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```

```
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```

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jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
*
```

```
/opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/xml/Processor.java
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```

```
*/
```

```
/**
```

```
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
```

```
 * constructor. Instead, they must use the
```

```
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
```

```
 * version.
```

```
*
```

```
 * @param mv
```

```
 * 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 desc
*      the method's descriptor (see { @link Type Type }).
* @throws IllegalStateException
*      If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-
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```

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- * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/skins/html/SkinnedJMenuItem.java
- *
- * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/utils/signedurl/GatekeeperClientUtils.java
- * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/gui/CreateBucketDialog.java
- * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/AlertDialog.java
- * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-

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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
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/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/con
trib/org/apache/commons/httpclient/contrib/proxy/PluginProxyUtil.java $
* $Revision: 1.5 $
* $Date: 2007/01/18 11:11:27 $
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/gui/CopyObjectsDialog.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/samples/UrlSigningExample.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/apps/cockpit/gui/ObjectTableModel.java
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jar/src/org/jets3t/service/io/RepeatableInputStream.java

* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/Cockpit.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/servlets/gatekeeper/ClientInformation.java
*
/opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/gui/BucketTableModel.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/samples/StorePassphraseBasedLogin.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/samples/SamplesUtils.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/tests/PutViaSocket.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/S3Service.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/servlets/gatekeeper/impl/ExternalUuidProvider.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/ListObjectsEvent.java

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https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/contrib/org/apache/commons/httpclient/contrib/proxy/PluginProxyTestApplet.java \$

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 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/servlets/gatekeeper/impl/DefaultAuthorizer.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/tests/BaseS3ServiceTest.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/security/AWSCredentials.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/skins/html/SkinnedJTextArea.java
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 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/utils/signedurl/SignedUrlHandler.java
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 /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/utils/Mimetypes.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/io/BytesProgressWatcher.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/JHtmlLabel.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/gui/PreferencesDialog.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/GetObjectsEvent.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/servlets/gatekeeper/impl/RenameToUuidUrlSigner.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/synchronize/SynchronizeException.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/skins/html/SkinnedJPanel.java
 *
 /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/model/S3Owner.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/servlets/gatekeeper/impl/DefaultUrlSigner.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/skins/html/SkinnedJButton.java
 * /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/utils/signedurl/SignedUrlAndObject.java

* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/gui/LoginPassphrasePanel.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/CreateObjectsEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/tests/HttpClientRestS3ServiceTest.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/utils/ObjectUtils.java
*
/opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/acl/GranteeInterface.java
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/utils/ServiceUtils.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/CockpitPreferences.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/GetObjectHeadsEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/skins/html/SkinnedJProgressBar.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/gui/AccessControlDialog.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/io/UnrecoverableIOException.java
*
/opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/DownloadObjectsEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/gui/StartupDialog.java
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/acl/GroupGrantee.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/S3ServiceEventAdaptor.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/skins/html/SkinnedLookAndFeel.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/CreateBucketsEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/model/S3BucketLoggingStatus.java
*
/opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/apps/cockpit/gui/AWSCredentialsDialog.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/multithread/S3ServiceSimpleMulti.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-

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jar/src/org/jets3t/service/multithread/ThreadWatcher.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/apps/uploader/Uploader.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/acl/CanonicalGrantee.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/gui/AuthenticationDialog.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/security/EncryptionUtil.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/impl/soap/axis/SoapS3Service.java
*
/opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/S3ServiceException.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/acl/AccessControlList.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/model/CreateBucketConfiguration.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/UserInputFields.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/tests/FakeS3Server.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/skins/SkinUtils.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/multithread/DownloadPackage.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/io/InputStreamWrapper.java
*
/opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/model/S3Bucket.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/io/InterruptableInputStream.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/acl/Permission.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/multithread/CancelEventTrigger.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/samples/CodeSamples.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/gui/GuiUtils.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/model/BaseS3Object.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/gui/skins/html/SkinnedJRadioButton.java
*
/opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/impl/rest/httpclient/RepeatableRequestEntity.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/utils/FileComparer.java

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jar/org/objectweb/asm/util/Textifiable.java
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*/
/**
 * Constructs a new {@link Textifier}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

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```

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/util/Textifier.java

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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 *
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName}). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

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* ASM XML Adapter

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* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/xml/SAXAdapter.java

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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/opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/xml/Processor.java

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-

jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/TypePath.java
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*/

/**

* Creates a new { @link AnalyzerAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
*
* @param owner
*
* the owner's class name.
* @param access
* the method's access flags (see { @link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type Type}).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java
- *
- /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/Context.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/commons/MethodRemapper.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/Label.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/ASMifier.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/Frame.java
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- /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
- * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/AnnotationNode.java

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/ModuleWriter.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/FieldWriter.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/LineNumberNode.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/ByteVector.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
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 /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
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 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/ModuleProvideNode.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/InsnList.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/FieldVisitor.java
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 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/Edge.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/Opcodes.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tools/ModuleInfoBndPlugin.java
 * /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
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/opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
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jar/org/objectweb/asm/commons/AnnotationRemapper.java
*
/opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
*
/opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-

```
jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/CurrentFrame.java
*
/opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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```

```
*/
```

```
/**
```

```
* Constructs a new {@link ClassNode}. <i>Subclasses must not use this  
* constructor</i>. Instead, they must use the {@link #ClassNode(int)}
```

```
* version.  
*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-  
jar/org/objectweb/asm/tree/ClassNode.java
```

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```

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```
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-  
jar/org/objectweb/asm/tree/package.html
```

```
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-  
jar/org/objectweb/asm/commons/package.html
```

```
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
```

jar/org/objectweb/asm/package.html

*

/opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/package.html

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/signature/package.html

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/analysis/package.html

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*/

/**

* Creates a new {@link GeneratorAdapter}. *Subclasses must not use this*

* constructor*.* Instead, they must use the

* {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

* version.

*

* @param mv

* 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 desc
*     the method's descriptor (see { @link Type Type }).
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
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```
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jar/org/objectweb/asm/xml/package.html
```

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```

```
*/
```

```
/**
```

```
* Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
```

```
* not use this constructor</i>. Instead, they must use the
```

```
* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
```

```
* version.
```

```
*
```

```
* @param typeRef
```

```
* a reference to the annotated type. See {@link TypeReference}.
```

```
* @param typePath
```

```
* the path to the annotated type argument, wildcard bound, array
```

```
* element type, or static inner type within 'typeRef'. May be
```

```
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
```

```
* @param start
```

```

*      the first instructions corresponding to the continuous ranges
*      that make the scope of this local variable (inclusive).
* @param end
*      the last instructions corresponding to the continuous ranges
*      that make the scope of this local variable (exclusive). This
*      array must have the same size as the 'start' array.
* @param index
*      the local variable's index in each range. This array must have
*      the same size as the 'start' array.
* @param desc
*      the class descriptor of
the annotation class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

1.468 xz-java 1.6

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1.469 jackson 2.10.5

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1.470 jackson-annotations 2.10.5

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jar/net/bytebuddy/agent/Installer.java
* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
jar/net/bytebuddy/agent/VirtualMachine.java
* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
jar/net/bytebuddy/agent/package-info.java
*
/opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
jar/net/bytebuddy/agent/Attacher.java
* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
jar/net/bytebuddy/agent/ByteBuddyAgent.java
```

1.472 zkclient 0.11

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1.475 hk2-core-module 2.6.1

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1.476 jaxb-core 2.2.3-1

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1.480 paranamer 2.8

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jar/com/thoughtworks/paranamer/PositionalParanamer.java
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* /opt/cola/permits/1150909240_1617718312.14/0/paranamer-2-8-sources-5-
jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java

* /opt/cola/permits/1150909240_1617718312.14/0/paranamer-2-8-sources-5-jar/com/thoughtworks/paranamer/AdaptiveParanamer.java

*

/opt/cola/permits/1150909240_1617718312.14/0/paranamer-2-8-sources-5-jar/com/thoughtworks/paranamer/CachingParanamer.java

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1.481 servlet-api 2.5-20081211

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: 1.5.0_13 (Sun Microsystems Inc.)

Built-By: janb

Build-Jdk: 1.5.0_13

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

Bundle-RequiredExecutionEnvironment: J2SE-1.4

Specification-Version: 2.5

Bnd-LastModified: 1229016831353

Export-Package: javax.servlet.http;uses:="javax.servlet";version="2.5"

,javax.servlet;version="2.5",javax.servlet.resources;version="2.5",ja

vax.servlet.jsp.resources;version="2.5"

Bundle-Version: 2.5

Ignore-Package: javax.servlet.http,javax.servlet,javax.servlet.resources,javax.servlet.jsp.resources
Bundle-Name: Servlet Specification API
Bundle-Description: Servlet Specification API
Bundle-DocURL: http://www.mortbay.com
Originally-Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Bundle-Vendor: Mort Bay Consulting
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Bundle-SymbolicName: org.mortbay.jetty.servlet-api
Tool: Bnd-0.0.238
Implementation-Vendor:
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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/javaee_5.xsd

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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/jsp_2_0.xsd

* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jsp_2_0.xsd

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1.484 json-java 20140107

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- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/JSONTokener.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/Cookie.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/CDL.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/XMLTokener.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/Property.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/HTTP.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/XML.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/CookieList.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/HTTPTokener.java

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- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/Huff.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/Keep.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/Compressor.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/MapKeep.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/TrieKeep.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/PostMortem.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/BitInputStream.java
- *
- /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/Kim.java
- * /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/JSONzip.java

1.485 ehcache 3.3.1

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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/statistics/LowerCachingTierOperationsOutcome.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/executor/OutOfBandScheduledExecutor.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/Eh107CacheMXBean.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/EvictionAdvisor.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/events/CacheEvents.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/copy/IdentityCopier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/store/tiering/LowerCachingTier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/builders/UserManagedCacheConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/time/SystemTimeSource.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/builders/UserManagedCacheBuilder.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/ListenerResources.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/internal/Js107CacheLoaderWriter.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/offheap/OffHeapMapStatistics.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/statistics/TypedValueStatistic.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/heap/holders/OnHeapValueHolder.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/DefaultJs107SerializationProvider.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/event/CacheEvent.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/serialization/TransientStateHolder.java
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/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/internal/util/Functions.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/time/TimeSourceService.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-

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jar/org/ehcache/xml/XmlConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/service/ExecutionService.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/config/Jsr107CacheConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/events/EventDispatchTask.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/copy/ReadWriteCopier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/serialization/Serializer.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/persistence/DefaultPersistenceConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/internal/DefaultJsr107Service.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/loaderwriter/writebehind/WriteBehind.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/service/ServiceUtils.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/internal/Jsr107CacheConfigurationParser.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/config/SizedResourcePoolImpl.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/store/BinaryValueHolder.java
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/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/store/heap/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/Eh107IdentityCopier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/internal/resilience/RecoveryCache.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/service/ServiceCreationConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/ExpiryPolicyToEhcacheExpiry.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/InternalCache.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/loaderwriter/WriteBehindConfiguration.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/config/BaseCacheConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/service/ServiceFactory.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/event/package-
info.java

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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/loaderwriter/CacheWritingException.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/sizeof/DefaultSizeOfEngineProviderFactory.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/Eh107CacheLoaderWriter.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/StatusTransitioner.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/internal/resilience/LoggingRobustResilienceStrategy.java

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/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/config/ConfigurationElementState.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/loaderwriter/writebehind/operations/BatchOperation.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/config/AbstractResourcePool.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/statistics/DefaultStatisticsServiceFactory.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/xml/CacheServiceConfigurationParser.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/heap/holders/LookupOnlyOnHeapKey.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/internal/resilience/ResilienceStrategy.java

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/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/CacheConfiguration.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/xml/XmlModel.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/builders/PooledExecutionServiceConfigurationBuilder.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/loaderwriter/WriteBehindProvider.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/loaderwriter/writebehind/WriteBehindProviderFactory.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/builders/CacheManagerBuilder.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/NullCompletionListener.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/service/PluralService.java

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/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/serialization/IntegerSerializer.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/TimeSourceServiceFactory.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/statistics/CacheStatistics.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/Js107Cache.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/store/events/StoreEventListener.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/event/DefaultEventSourceConfiguration.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/offheap/SwitchableEvictionAdvisor.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/function/BiFunction.java
 *
 /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/offheap/AbstractOffHeapStore.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/copy/CopyProvider.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/package-info.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/store/tiering/AuthoritativeTier.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/offheap/portability/OffHeapValueHolderPortability.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/store/tiering/CachingTier.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/loaderwriter/writebehind/AbstractWriteBehind.java
 *
 /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/sizeof/listeners/exceptions/VisitorListenerException.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/store/heap/SizeOfEngineProvider.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/store/heap/DefaultSizeOfEngineProviderConfiguration.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/heap/holders/OnHeapKey.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/events/StateChangeListener.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/event/EventFiring.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/EhcacheExpiryWrapper.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/loaderwriter/writebehind/DefaultBatchingConfiguration.java
 *
 /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/tiering/TieredStore.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/disk/DiskWriteThreadPool.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/loaderwriter/writebehind/operations/KeyBasedOperation.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-

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jar/org/ehcache/core/config/store/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/store/disk/OffHeapDiskStoreConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/serialization/TransientStateRepository.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/LifeCycled.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/DefaultConfigurationResolver.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/config/builders/ResourcePoolsBuilder.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/statistics/CachingTierOperationOutcomes.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/statistics/StatsUtils.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/ClassInstanceConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/serialization/DoubleSerializer.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/store/Store.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/SpecIterator.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/Ehcache.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/event/CacheEventListener.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/Eh107Cache.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/events/StoreEventSink.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/internal/store/StoreSupport.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/events/CacheEventNotificationListenerServiceProviderFactory.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/executor/DefaultExecutionServiceProviderFactory.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
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*
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jar/org/ehcache/impl/internal/spi/copy/DefaultCopyProvider.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/executor/PooledExecutionService.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/store/offheap/OffHeapStoreUtils.java
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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/sizeof/DefaultSizeOfEngineProvider.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/internal/store/StoreConfigurationImpl.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/executor/package-info.java

*

/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/persistence/FileBasedStateRepository.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/PersistentUserManagedEhcache.java

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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/event/EventType.java

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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/ResourceUnit.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/DefaultCacheManagerProviderService.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/offheap/MemorySizeParser.java

*

/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/loaderwriter/writebehind/DefaultWriteBehindConfiguration.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/Cache.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/classes/ClassInstanceProvider.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/executor/OnDemandExecutionService.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/copy/package-info.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/Eh107InternalCacheManager.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/Eh107Expiry.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/events/ScopedStoreEventDispatcher.java

*

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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/copy/DefaultCopyProviderConfiguration.java

* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-

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jar/org/ehcache/impl/persistence/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/event/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/xml/ConfigurationParser.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/internal/resilience/RethrowingStoreAccessException.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/loaderwriter/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/service/MaintainableService.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/serialization/ByteArraySerializer.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/persistence/PersistableResourceService.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/xml/CacheManagerServiceConfigurationParser.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/internal/Jsr107ServiceConfigurationParser.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/units/package-
info.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/store/disk/OffHeapDiskStore.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/service/package-
info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/serialization/CompactJavaSerializer.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/CacheConfigurationChangeListener.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/config/units/MemoryUnit.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/spi/copy/DefaultCopyProviderFactory.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/store/heap/SizeOfEngine.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/events/CacheEventDispatcherFactory.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/loaderwriter/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/copy/Copier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-

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jar/org/ehcache/core/spi/store/events/StoreEventSource.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/events/NullStoreEventDispatcher.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/spi/loaderwriter/DefaultCacheLoaderWriterProviderFactory.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/store/basic/EmptyValueHolder.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/config/Configuration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/EhcacheCachingProvider.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/spi/event/DefaultCacheEventListenerProvider.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/internal/util/ValueSuppliers.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/events/CacheEventDispatcherImpl.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/internal/resilience/RobustResilienceStrategy.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/loaderwriter/writebehind/operations/WriteAllOperation.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/events/ThreadLocalStoreEventDispatcher.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/service/CacheManagerProviderService.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/serializer/DefaultSerializerConfiguration.java
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jar/org/ehcache/impl/internal/store/disk/factories/EhcachePersistentSegmentFactory.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/serialization/PlainJavaSerializer.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/loaderwriter/CacheLoaderWriterProvider.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/store/tiering/CompoundCachingTierProviderFactory.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/store/disk/EhcachePersistentConcurrentOffHeapClockCache.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/executor/PooledExecutionServiceConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/store/tiering/package-info.java

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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/sizeof/NoopSizeOfEngine.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/CacheManager.java
 *
 /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/loaderwriter/writebehind/StripedWriteBehind.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/copy/DefaultCopierConfiguration.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/concurrent/package-info.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/util/ServiceUtil.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/statistics/DefaultCacheStatistics.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/HumanReadable.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/persistence/package-info.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/spi/serialization/DefaultSerializationProviderFactory.java
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 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/serialization/StatefulSerializer.java
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 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/function/Function.java
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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/package-info.java
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jar/org/ehcache/core/spi/store/heap/LimitExceededException.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
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 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
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 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/jsr107/NullCacheEntryEventFilter.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/impl/internal/executor/PartitionedScheduledExecutor.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/spi/persistence/package-info.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/config/builders/CacheManagerConfiguration.java
 *
 /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/core/events/CacheEventListenerConfiguration.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/core/exceptions/ExceptionFactory.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/impl/internal/statistics/ZeroOperationStatistic.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/jsr107/internal/WrappedCacheLoaderWriter.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/core/spi/LifeCycledAdapter.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/core/spi/store/ConfigurationChangeSupport.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/core/spi/store/events/StoreEventFilter.java
 *
 /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/jsr107/Eh107CacheLoaderWriterProvider.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/jsr107/Eh107Configuration.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/impl/internal/statistics/DefaultStatisticsService.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/impl/config/store/heap/DefaultSizeOfEngineConfiguration.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/core/statistics/TierOperationOutcomes.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/impl/internal/concurrent/JSR166Helper.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/copy/package-
 info.java
 * /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
 jar/org/ehcache/jsr107/EventListenerAdaptors.java

*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/events/InvocationScopedEventSink.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/store/tiering/HigherCachingTier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/loaderwriter/writebehind/WriteBehindProviderConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/EhcacheManager.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/service/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/executor/ExecutorUtil.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/persistence/DefaultLocalPersistenceServiceFactory.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/SizedResourcePool.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/ResourcePool.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/function/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/event/DefaultCacheEventListenerConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/store/tiering/CompoundCachingTier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/serialization/SerializerException.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/spi/store/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/serializer/package-info.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/store/disk/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/loaderwriter/BulkCacheWritingException.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/CacheRuntimeConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/config/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/serialization/CharSerializer.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/loaderwriter/BulkCacheLoadingException.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/config/loaderwriter/DefaultCacheLoaderWriterProviderConfiguration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-

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jar/org/ehcache/UserManagedCache.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/serialization/StringSerializer.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/expiry/Duration.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/copy/SerializingCopier.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/expiry/package-
info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/serialization/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/EhcacheWithLoaderWriter.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/loaderwriter/writebehind/operations/SingleOperation.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/persistence/DefaultLocalPersistenceService.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/Eh107MXBean.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/spi/persistence/StateHolder.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/copy/package-info.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/expiry/Expirations.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/spi/store/StoreAccessTimeoutException.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/InternalStatus.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/CacheResources.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/config/store/disk/OffHeapDiskStoreProviderConfiguration.java
*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/internal/service/ServiceLocator.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/CacheConfigurationChangeEvent.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/PersistentCacheManager.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/jsr107/Eh107CacheManager.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/store/offheap/LazyOffHeapValueHolder.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/core/events/StoreEventDispatcher.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/statistics/DefaultTierStatistics.java

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```
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/commonslang/ArrayUtils.java
*
 /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/commonslang/reflect/ConstructorUtils.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/commonslang/SystemUtils.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/commonslang/Validate.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/commonslang/JavaVersion.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/commonslang/ClassUtils.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/classes/commonslang/reflect/MemberUtils.java
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org.ehcache.jsr107.internal.Jsr107CacheConfigurationParser

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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/META-INF/services/org.ehcache.xml.CacheServiceConfigurationParser
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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/ehcache-core.xsd

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*
/opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/concurrent/ConcurrentHashMap.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/concurrent/CountedCompleter.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/concurrent/ThreadLocalRandom.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/concurrent/ForkJoinTask.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/concurrent/ForkJoinWorkerThread.java

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1.487 hbase-server 2.1.0-cdh6.3.0

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1.504 hadoop-yarn-registry 2.7.1

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* /opt/cola/permits/1152035406_1618042754.53/0/hadoop-yarn-registry-2-7-1-sources-1-jar/org/apache/hadoop/registry/client/api/package-info.java
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1.544 hive-metastore 2.1.1-cdh6.3.0

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1.555 hbase-client 2.2.4

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1.559 flume-ng-config-filter-api 1.9.0-cdh6.3.0

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1.560 hbase-zookeeper 2.2.4

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1.561 hadoop-yarn-common 2.8.5

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation
in `src/main/native/src/org/apache/hadoop/util`:

```
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 */
```

For `src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}`,

```
/*
LZ4 - Fast LZ compression algorithm
Header File
```

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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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1.562 hbase-http 2.2.4

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For portions of the native implementation of slicing-by-8 CRC calculation
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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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- LZ4 source repository : <http://code.google.com/p/lz4/>

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

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Streaming API for XML

1.0

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```

*/

For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/instrumentation/GangliaServer.java
*
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Found in path(s):
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/source/shaded/guava/Uninterruptibles.java
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jar/org/apache/flume/source/shaded/guava/Stopwatch.java

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* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/source/http/HTTPSourceHandler.java

*

/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/annotations/InterfaceAudience.java

* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/source/http/HTTPSourceConfigurationConstants.java

* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/source/http/JSONHandler.java

* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/source/http/HTTPBadRequestException.java

* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/source/http/HTTPSource.java

* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/annotations/InterfaceStability.java

* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/ChannelFactory.java

*

/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/source/http/BLOBHandler.java

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* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/instrumentation/SinkCounter.java
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jar/org/apache/flume/instrumentation/kafka/KafkaSourceCounter.java
```

```
*
```

```
/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/source/SyslogParser.java
```

```
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/LengthMeasurable.java
```

```
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/RegexExtractorInterceptorPassThroughSerializer.java
```

```
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
```



```

jar/org/apache/flume/interceptor/RegexExtractorInterceptorSerializer.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/NullSink.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/Resettable.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/StaticInterceptor.java
*
/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/LineDeserializer.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/AbstractSinkProcessor.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/ResettableFileInputStream.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/tools/PlatformDetect.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/SinkProcessorFactory.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/instrumentation/kafka/KafkaChannelCounterMBean.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/SinkProcessor.java
*
/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/client/avro/ReliableEventReader.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/instrumentation/kafka/KafkaSinkCounterMBean.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/InterceptorType.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/Seekable.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/LoggerSink.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/instrumentation/kafka/KafkaSourceCounterMBean.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/RegexFilteringInterceptor.java
*
/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/formatter/output/BucketPath.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/ResettableInputStream.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/FailoverSinkProcessor.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/TimestampInterceptor.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/tools/VersionInfo.java

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* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/Transaction.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/Channel.java
*
/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/conf/TransactionCapacitySupported.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/instrumentation/kafka/KafkaChannelCounter.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/RemoteMarkable.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/tools/TimestampRoundDownUtil.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/EventDeserializer.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/AvroEventDeserializer.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/DefaultSinkProcessor.java
*
/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/SinkGroup.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/SearchAndReplaceInterceptor.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/HostInterceptor.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/sink/RollingFileSink.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/instrumentation/kafka/KafkaSinkCounter.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/DurablePositionTracker.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/PositionTracker.java
*
/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/channel/PseudoTxnMemoryChannel.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/ChannelException.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/RegexExtractorInterceptor.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/tools/GetJavaProperty.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/RegexExtractorInterceptorMillisSerializer.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/ChannelFullException.java
*

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/opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/interceptor/InterceptorBuilderFactory.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/serialization/EventSerDe.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/conf/BatchSizeSupported.java
* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/VersionAnnotation.java
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jar/org/apache/flume/source/shaded/guava/RateLimiter.java
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* /opt/cola/permits/1152444893_1653632835.5813935/0/flume-ng-core-1-9-0-cdh6-3-0-sources-
jar/org/apache/flume/source/shaded/guava/SmoothRateLimiter.java
```

1.568 hadoop-hdfs 2.8.5

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- */

For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*
LZ4 - Fast LZ compression algorithm
Header File
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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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* 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

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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.

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org.ow2.asm:asm-commons

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org.apache.tomcat:tomcat-jasper

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

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org.eclipse.jetty.toolchain:jetty-schemas

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*/

For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

```
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```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

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jsp-api 2.1

Streaming API for XML

1.0

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```
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For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

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 */
```

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```
/*
LZ4 - Fast LZ compression algorithm
Header File
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```

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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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/opt/cola/permits/1152444757_1653632653.4959867/0/flume-kafka-source-1-9-0-cdh6-3-0-sources-
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1.578 flume-ng-auth 1.9.0-cdh6.3.0

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/opt/cola/permits/1152444747_1653632588.486586/0/flume-ng-auth-1-9-0-cdh6-3-0-sources-jar/org/apache/flume/auth/FlumeAuthenticationUtil.java

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1.579 hadoop-hdfs-client 2.8.5

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For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

```
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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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- LZ4 source repository : <http://code.google.com/p/lz4/>

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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- * java.sun.security.ssl

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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.583 hadoop-yarn-server-web-proxy 3.1.0

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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
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bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1
datatables v1.10.8
em-helpers v0.5.13
em-table v0.1.6
ember v2.2.0
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ember-disable-proxy-controllers v1.0.1
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momentjs v2.10.6
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spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
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org.apache.tomcat:tomcat-jasper
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1.584 hadoop-yarn-registry 3.1.0

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* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

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ember-cli-jquery-ui v0.0.20

ember-cli-qunit v1.2.1

ember-cli-release v0.2.8

ember-cli-shims v0.0.6

ember-cli-sri v1.2.1

ember-cli-test-loader v0.2.1

ember-cli-uglify v1.2.0

ember-d3 v0.1.0

ember-data v2.1.0

ember-disable-proxy-controllers v1.0.1

ember-export-application-global v1.0.5

ember-load-initializers v0.1.7

ember-qunit v0.4.16

ember-qunit-notifications v0.1.0

ember-resolver v2.0.3

ember-spin-spinner v0.2.3

ember-truth-helpers v1.2.0

jquery v2.1.4

jquery-ui v1.11.4

loader.js v3.3.0

momentjs v2.10.6

qunit v1.19.0
select2 v4.0.0
snippet-ss v1.11.0
spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
JUL to SLF4J bridge
1.7.25
SLF4J API Module 1.7.25
SLF4J LOG4J-12 Binding 1.7.25

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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1
datatables v1.10.8
em-helpers v0.5.13
em-table v0.1.6
ember v2.2.0
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1.587 hive-shims-scheduler 3.1.2

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1.588 hadoop-yarn-server-applicationhistoryservice 3.1.0

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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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re2j 1.1

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

em-table v0.1.6

ember v2.2.0

ember-array-contains-helper

v1.0.2

ember-bootstrap v0.5.1

ember-cli v1.13.13

ember-cli-app-version v1.0.0

ember-cli-babel v5.1.6

ember-cli-content-security-policy v0.4.0

ember-cli-dependency-checker v1.2.0

ember-cli-htmlbars v1.0.2

ember-cli-htmlbars-inline-precompile v0.3.1

ember-cli-ic-ajax v0.2.1

ember-cli-inject-live-reload v1.4.0

ember-cli-jquery-ui v0.0.20

ember-cli-qunit v1.2.1

ember-cli-release v0.2.8

ember-cli-shims v0.0.6

ember-cli-sri v1.2.1

ember-cli-test-loader v0.2.1

ember-cli-uglify v1.2.0

ember-d3 v0.1.0

ember-data v2.1.0
ember-disable-proxy-controllers v1.0.1
ember-export-application-global v1.0.5
ember-load-initializers v0.1.7
ember-qunit v0.4.16
ember-qunit-notifications v0.1.0
ember-resolver v2.0.3
ember-spin-spinner v0.2.3
ember-truth-helpers v1.2.0
jquery v2.1.4
jquery-ui v1.11.4
loader.js v3.3.0
momentjs v2.10.6
qunit v1.19.0
select2 v4.0.0
snippet-ss v1.11.0
spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
JUL to SLF4J bridge
1.7.25
SLF4J API Module 1.7.25
SLF4J LOG4J-12 Binding 1.7.25

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

Apache HBase - Server which contains JQuery minified javascript library version 1.8.3

Microsoft JDBC Driver for SQLServer - version 6.2.1.jre7

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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

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org.ow2.asm:asm-commons

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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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```

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```

/*
 LZ4 - Fast LZ compression algorithm

```


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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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Streaming API for XML

1.0

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* Tatu Saloranta

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- * Alec Wysoker
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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

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*/

For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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bootstrap v3.3.6

broccoli-asset-rev v2.4.2
broccoli-funnel v1.0.1
datatables v1.10.8
em-helpers v0.5.13
em-table v0.1.6
ember v2.2.0
ember-array-contains-helper
v1.0.2
ember-bootstrap v0.5.1
ember-cli v1.13.13
ember-cli-app-version v1.0.0
ember-cli-babel v5.1.6
ember-cli-content-security-policy v0.4.0
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ember-cli-sri v1.2.1
ember-cli-test-loader v0.2.1
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ember-truth-helpers v1.2.0
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jquery-ui v1.11.4
loader.js v3.3.0
momentjs v2.10.6
qunit v1.19.0
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snippet-ss v1.11.0
spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
Apache HBase - Server which contains JQuery minified javascript library version 1.8.3
Microsoft JDBC Driver for SQLServer - version 6.2.1.jre7

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servlet-api 2.5

jsp-api 2.1

jsr311-api 1.1.1

Glassfish Jasper 6.1.14

Servlet Specification 2.5 API 6.1.14

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For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

```
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```

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```
/*  
LZ4 - Fast LZ compression algorithm  
Header File  
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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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- * java.sun.security.ssl

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1.614 netty 4.1.65.Final

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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

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*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h`:

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bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

em-table v0.1.6

ember v2.2.0

ember-array-contains-helper

v1.0.2
ember-bootstrap v0.5.1
ember-cli v1.13.13
ember-cli-app-version v1.0.0
ember-cli-babel v5.1.6
ember-cli-content-security-policy v0.4.0
ember-cli-dependency-checker v1.2.0
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ember-cli-htmlbars-inline-precompile v0.3.1
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ember-cli-jquery-ui v0.0.20
ember-cli-qunit v1.2.1
ember-cli-release v0.2.8
ember-cli-shims v0.0.6
ember-cli-sri v1.2.1
ember-cli-test-loader v0.2.1
ember-cli-uglify v1.2.0
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jquery v2.1.4
jquery-ui v1.11.4
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momentjs v2.10.6
qunit v1.19.0
select2 v4.0.0
snippet-ss v1.11.0
spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
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uriparser - RFC 3986 URI parsing library

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For portions of the native implementation of slicing-by-8 CRC calculation

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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

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*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.7/

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

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em-table v0.1.6

ember v2.2.0

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ember-bootstrap v0.5.1

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ember-cli-babel v5.1.6

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ember-resolver v2.0.3
ember-spin-spinner v0.2.3
ember-truth-helpers v1.2.0
jquery v2.1.4
jquery-ui v1.11.4
loader.js v3.3.0
momentjs v2.10.6
qunit v1.19.0
select2 v4.0.0
snippet-ss v1.11.0
spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
JUL to SLF4J bridge
1.7.25
SLF4J API Module 1.7.25
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

Apache HBase - Server which contains JQuery minified javascript library version 1.8.3

Microsoft JDBC Driver for SQLServer - version 6.2.1.jre7

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org.eclipse.jetty.toolchain:jetty-schemas

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*

* Abstract: The main routine

*

--*/

For `src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}`,

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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bootstrap v3.3.6

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ember v2.2.0

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ember-cli-app-version v1.0.0

ember-cli-babel v5.1.6

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JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
JUL to SLF4J bridge
1.7.25
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```
Gnomovision version
69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

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1.623 kotlin 1.3.71

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```
{ "version":3,"file":"kotlin.js","sources":["wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","core.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotlin/UShort.kt","Ranges.kt","collections/Collections.kt","collections/Maps.kt","collections/Sets.kt","text/StringNumberConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Sequences.kt","util/Preconditions.kt","generated/_ArraysJs.kt","comparisons/Comparisons.kt","kotlin/Comparator.kt","util/Standard.kt","generated/_ComparisonsJs.kt","generated/_Collections.kt","kotlin/collections.kt","collections/Iterators.kt","generated/_Comparisons.kt","generated/_Maps.kt","generated/_Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","kotlin/text/string.kt","kotlin/UByteArray.kt","kotlin/UIntArray.kt","kotlin/ULongArray.kt","kotlin/ULong.kt","kotlin/UShortArray.kt","generated/_UArrays.kt","generated/_UCollections.kt","generated/_UComparisons.kt","generated/_URanges.kt","generated/_USequences.kt","Collections.kt","Iterators.kt","ProgressionIterators.kt","Progressions.kt","Range.kt","Unit.kt","annotation/Annotations.kt","internal/InternalAnnotations.kt","internal/progressionUtil.kt","reflect/KParameter.kt","reflect/KType.kt","reflect/KVariance.kt","reflect/KVisibility.kt","kotlin/builtins.kt","kotlin/jsTypeOf.kt","kotlin/kotlin.kt","kotlin/coroutines/CoroutineImpl.kt","util/Result.kt","coroutines/Continuation.kt","kotlin/coroutines/intrinsics/IntrinsicsJs.kt","kotlin/currentBeMisc.kt","kotlin/jsOperators.kt","kotlin/math_js-v1.kt","kotlin/numbers_js-v1.kt","kotlin/text/numberConversions_js-v1.kt","generated/_CollectionsJs.kt","generated/_StringsJs.kt","generated/_UArraysJs.kt","jquery/ui.kt","kotlin/annotations.kt","kotlin/annotationsJVM.kt","kotlin/collections/AbstractMutableCollection.kt","kotlin/collections/AbstractMutableList.kt","kotlin/collections/AbstractMutableMap.kt","kotlin/collections/AbstractMutableSet.kt","kotlin/collections/ArrayList.kt","kotlin/collections/ArraySorting.kt","kotlin/collections/ArraysJs.kt","kotlin/collections/EqualityComparator.kt","kotlin/collections/HashMap.kt","kotlin/collections/HashSet.kt","kotlin/collections/InternalHashMap.kt","kotlin/collections/InternalMap.kt","kotlin/collections/InternalStringMap.kt","kotlin/collections/LinkedHashMap.kt","kotlin/collections/LinkedHashSet.kt","kotlin/concurrent.kt","kotlin/console.kt","kotlin/coroutines/SafeContinuationJs.kt","kotlin/coroutines/js/internal/EmptyContinuation.kt","kotlin/date.kt","kotlin/dom/Builders.kt","kotlin/dom/Classes.kt","text/regex/RegexExtensions.kt","text/StringBuilder.kt","kotlin/dom/Dom.kt","kotlin/dom/EventListener.kt","kotlin/dom/ItemArrayLike.kt","kotlin/dom/Mutations.kt","kotlin/dynamic.kt","kotlin/exceptionUtils.kt","kotlin/exceptions.kt","kotlin/grouping.kt","collections/Grouping.kt","kotlin/js.math.kt","kotlin/json.kt","kotlin/math.kt","kotlin/numbers.kt","kotlin/promise.kt","kotlin/random/PlatformRandom.kt","kotlin/reflect/JsClass.kt","kotlin/reflect/KClassImpl.kt","kotlin/reflect/KTypeHelpers.kt","kotlin/reflect/KTypeImpl.kt","kotlin/reflect/KTypeParameterImpl.kt","kotlin/reflect/primitives.kt","kotlin/reflect/reflection.kt","kotlin/regexp.kt","kotlin/sequence.kt","kotlin/text/CharacterCodingExceptionJs.kt","kotlin/text/StringBuilderJs.kt","kotlin/text/char.kt","kotlin/text/numberConversions.kt","kotlin/text/regex.kt","kotlin/text/stringsCode.kt","kotlin/text/utf8Encoding.kt","kotlin/time/DurationUnit.kt","kotlin/time/MonoTimeSource.kt","kotlin/time/formatToDecimals.kt","org.w3c/deprecated.kt","org.w3c/org.khronos.webgl.kt","org.w3c/org.w3c.dom.clipboard.kt","org.w3c/org.w3c.dom.css.kt","org.w3c/org.w3c.dom.events.kt","org.w3c/org.w3c.dom.kt","org.w3c/org.w3c.fetch.kt","org.w3c/org.w3c.dom.mediacapture.kt","org.w3c/org.w3c.dom.pointerevents.kt","org.w3c/org.w3c.dom.svg.kt","org.w3c/org.w3c.files.kt","org.w3c/org.w3c.notifications.kt","org.w3c/org.w3c.workers.kt","org.w3c/org.w3c.xhr.kt","annotations/Experimental.kt","annotations/ExperimentalStdlibApi.kt","annotations/Inference.kt","annotations/Multiplatform.kt","annotations/OptIn.kt","collections/AbstractCollection.kt","collections/AbstractIterator.kt","collections/AbstractList.kt","collections/AbstractMap.kt","collections/AbstractSet.kt","collections/ArrayDeque.kt","collections/Arrays.kt","collections/IndexedValue.kt","collections
```

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/MapAccessors.kt","collections/MapWithDefault.kt","collections/MutableCollections.kt","collections/ReversedViews.kt","collections/SequenceBuilder.kt","collections/SlidingWindow.kt","collections/UArraySorting.kt","contracts/ContractBuilder.kt","coroutines/ContinuationInterceptor.kt","coroutines/CoroutineContext.kt","coroutines/CoroutineContextImpl.kt","coroutines/intrinsics/Intrinsics.kt","experimental/bitwiseOperations.kt","experimental/inferenceMarker.kt","internal/Annotations.kt","properties/Delegates.kt","properties/ObservableProperty.kt","random/Random.kt","random/URandom.kt","random/XorWowRandom.kt","ranges/Ranges.kt","reflect/KClasses.kt","reflect/typeOf.kt","text/Appendable.kt","text/Char.kt","text/Indent.kt","text/Typography.kt","text/regex/MatchResult.kt","time/Duration.kt","time/DurationUnit.kt","time/ExperimentalTime.kt","time/TimeSource.kt","time/TimeSources.kt","time/measureTime.kt","util/HashCode.kt","util/KotlinVersion.kt","util/Lateinit.kt","util/Lazy.kt","util/Numbers.kt","util/Suspend.kt","util/Tuples.kt","kotlin/UIntRange.kt","kotlin/UITerators.kt","kotlin/ULongRange.kt","kotlin/UMath.kt","kotlin/UNumbers.kt","kotlin/UProgressionUtil.kt","kotlin/UStrings.kt","kotlin/annotations/Unsigned.kt","kotlin/MathH.kt","coroutines.kt","CoroutinesLibrary.kt","coroutinesIntrinsics.kt","ContinuationInterceptor.kt","CoroutineContext.kt","CoroutineContextImpl.kt","Coroutines.kt","Intrinsics.kt","SequenceBuilder.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 = {};\n    factory(root.kotlin);\n  }\n})(this, function (Kotlin) {\n  var _ = Kotlin;\n\n  insertContent();\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\nKotlin.isArray = function (a) {\n  return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === \"BooleanArray\";\n};\n\nKotlin.isByteArray = function (a) {\n  return a instanceof Int8Array && a.$type$ !== \"BooleanArray\";\n};\n\nKotlin.isShortArray = function (a) {\n  return a instanceof Int16Array;\n};\n\nKotlin.isCharArray = function (a) {\n  return a instanceof Uint16Array && a.$type$ === \"CharArray\";\n};\n\nKotlin.isIntArray = function (a) {\n  return a instanceof Int32Array;\n};\n\nKotlin.isFloatArray = function (a) {\n  return a instanceof Float32Array;\n};\n\nKotlin.isDoubleArray = function (a) {\n  return a instanceof Float64Array;\n};\n\nKotlin.isLongArray = function (a) {\n  return Array.isArray(a) && a.$type$ === \"LongArray\";\n};\n\nKotlin.isArray = function (a) {\n  return Array.isArray(a) && !a.$type$;\n};\n\nKotlin.isArrayish = function (a) {\n  return Array.isArray(a) || ArrayBuffer.isView(a);\n};\n\nKotlin.arrayToString = function (a) {\n  var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n  return "[" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(", ") + "];\n};\n\nKotlin.arrayDeepToString = function (arr) {\n  return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals = function (a, b) {\n  if (a === b) {\n    return true;\n  }\n  if (!Kotlin.isArrayish(b) || a.length !== b.length) {\n    return false;\n  }\n  for (var i = 0, n = a.length; i < n; i++) {\n    if (!Kotlin.equals(a[i], b[i])) {\n      return false;\n    }\n  }\n  return true;\n};\n\nKotlin.arrayDeepEquals = function (a, b) {\n  return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode = function (arr) {\n  var result = 1;\n  for (var i = 0, n = arr.length; i < n; i++) {\n    result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n  }\n  return result;\n};\n\nKotlin.arrayDeepHashCode = function (arr) {\n  return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n  array.sort(Kotlin.doubleCompareTo);\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\nKotlin.getCallableRef = function(name, f) {\n  f.callableName = name;\n  return f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n  getter.get = getter;\n  getter.set = setter;\n  getter.callableName = name;\n  return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n  obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\n  obj.constructor = obj;\n  return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n  {\n    mutable: { value:

```

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null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KMutableProperty0 }\n    },\n    immutable: { value: null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KProperty0 }\n    }\n  },\n  {\n    mutable: { value: null, implementedInterface: function () {\n      return
Kotlin.kotlin.reflect.KMutableProperty1 }\n    },\n    immutable: { value: null, implementedInterface: function
() {\n      return Kotlin.kotlin.reflect.KProperty1 }\n    }\n  };\n\nfunction getPropertyRefMetadata(cache)
{\n  if (cache.value === null) {\n    cache.value = {\n      interfaces: [cache.implementedInterface()],\n      baseClass: null,\n      functions: {},\n      properties: {},\n      types: {},\n      staticMembers: {}\n    };\n  }\n  return cache.value;\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\nKotlin.toShort = function (a) {\n  return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByte = function (a) {\n  return (a & 0xFF)
<< 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n  return a & 0xFFFF;\n};\n\nKotlin.numberToLong =
function (a) {\n  return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt =
function (a) {\n  return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort
= function (a) {\n  return Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n
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"/*\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\n  if (obj2 == null) {\n    return false;\n  }\n\n  if (obj1 !== obj2) {\n
return obj2 !== obj2;\n  }\n\n  if (typeof obj1 === "object" && typeof obj2 === "function") {\n
return obj1.equals(obj2);\n  }\n\n  if (typeof obj1 === "number" && typeof obj2 === "number") {\n  return
obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)\n  }\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"\n    === 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\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+"]";\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, { 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"/*\n * Copyright 2010-
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the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009 The Closure
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```


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```

/**
 * Constructs a 64-bit two's-complement integer, given its low and high 32-bit values as signed integers. See the from* functions below for more convenient ways of constructing Longs.
 * The internal representation of a long is the two given signed, 32-bit values. We use 32-bit pieces because these are the size of integers on which Javascript performs bit-operations. For operations like addition and multiplication, we split each number into 16-bit pieces, which can easily be multiplied within Javascript's floating-point representation without overflow or change in sign.
 * In the algorithms below, we frequently reduce the negative case to the positive case by negating the input(s) and then post-processing the result. Note that we must ALWAYS check specially whether those values are MIN_VALUE (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as a positive number, it overflows back into a negative). Not handling this case would often result in infinite recursion.
 * @param {number} low The low (signed) 32 bits of the long.
 * @param {number} high The high (signed) 32 bits of the long.
 */
@constructor
@final
Kotlin.Long = function(low, high) {
  @type {number}
  @private
  this.low_ = low | 0; // force into 32 signed bits.
  @type {number}
  @private
  this.high_ = high | 0; // force into 32 signed bits.
};
Kotlin.Long.$metadata$ = {
  kind: "class",
  simpleName: "Long",
  interfaces: []
};
NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the from* methods on which they depend.

/**
 * A cache of the Long representations of small integer values.
 * @type {!Object}
 * @private
 */
Kotlin.Long.IntCache_ = {};

/**
 * Returns a Long representing the given (32-bit) integer value.
 * @param {number} value The 32-bit integer in question.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromInt = function(value) {
  if (-128 <= value && value < 128) {
    var cachedObj = Kotlin.Long.IntCache_[value];
    if (cachedObj) {
      return cachedObj;
    }
    var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);
    if (-128 <= value && value < 128) {
      Kotlin.Long.IntCache_[value] = obj;
    }
    return obj;
  }

  Converts this number value to `Long`. The fractional part, if any, is rounded down towards zero. Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`, `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.
  @param {number} value The number in question.
  @return {!Kotlin.Long} The corresponding Long value.
  Kotlin.Long.fromNumber = function(value) {
    if (isNaN(value)) {
      return Kotlin.Long.ZERO;
    } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
      return Kotlin.Long.MIN_VALUE;
    } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
      return Kotlin.Long.MAX_VALUE;
    } else if (value < 0) {
      return Kotlin.Long.fromNumber(-value).negate();
    } else {
      return new Kotlin.Long(
        (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,
        (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);
    }
  }

  Returns a Long representing the 64-bit integer that comes by concatenating the given high and low bits. Each is assumed to use 32 bits.
  @param {number} lowBits The low 32-bits.
  @param {number} highBits The high 32-bits.
  @return {!Kotlin.Long} The corresponding Long value.
  Kotlin.Long.fromBits = function(lowBits, highBits) {
    return new Kotlin.Long(lowBits, highBits);
  }

  Returns a Long representation of the given string, written using the given radix.
  @param {string} str The textual representation of the Long.
  @param {number=} opt_radix The radix in which the text is written.
  @return {!Kotlin.Long} The corresponding Long value.
  Kotlin.Long.fromString = function(str, opt_radix) {
    if (str.length == 0) {
      throw Error('number format error: empty string');
    }
    var radix = opt_radix || 10;
    if (radix < 2 || 36 < radix) {
      throw Error('radix out of range: ' + radix);
    }
    if (str.charAt(0) == '-') {
      return Kotlin.Long.fromString(str.substring(1), radix).negate();
    } else if (str.indexOf('.') >= 0) {
      throw Error('number format error: interior "." character: ' + str);
    }
    // Do several (8) 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, 8));
    var result = Kotlin.Long.ZERO;
    for (var i = 0; i < str.length;

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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\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**\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**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\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**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_31_DBL_
=\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\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**\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**\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} *\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n** @type {!Kotlin.Long}
*\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n** @type {!Kotlin.Long} *\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n\n** @type {!Kotlin.Long} *\nKotlin.Long.MAX_VALUE =\n
Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n** @type {!Kotlin.Long}
*\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n**\n * @type {!Kotlin.Long}\n *
@private\n *\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1
<< 24);\n\n\n** @return {number} The value, assuming it is a 32-bit integer. *\nKotlin.Long.prototype.toInt =
function() {\n    return this.low_;\n};\n\n\n** @return {number} The closest floating-point representation to this
value. *\nKotlin.Long.prototype.toNumber = function() {\n    return this.high_ *
Kotlin.Long.TWO_PWR_32_DBL_ +\n        this.getLowBitsUnsigned();\n};\n\n\n** @return {number} The 32-bit
hashCode of this value. *\nKotlin.Long.prototype.hashCode = function() {\n    return this.high_ ^
this.low_;\n};\n\n\n**\n * @param {number=} opt_radix The radix in which the text should be written.\n * @return
{string} The textual representation of this value.\n * @override\n *\nKotlin.Long.prototype.toString =
function(opt_radix) {\n    var radix = opt_radix || 10;\n    if (radix < 2 || 36 < radix) {\n        throw Error('radix out of
range: ' + radix);\n    }\n    if (this.isZero()) {\n        return '0';\n    }\n    if (this.isNegative()) {\n        if
(this.equalsLong(Kotlin.Long.MIN_VALUE))\n            {\n                // We need to change the Long value before it can be negated, so we remove\n                // the bottom-most digit in
this base and then recurse to do the rest.\n                var radixLong = Kotlin.Long.fromNumber(radix);\n                var div =
this.div(radixLong);\n                var rem = div.multiply(radixLong).subtract(this);\n                return div.toString(radix) +
rem.toInt().toString(radix);\n            } else {\n                return '-' + this.negate().toString(radix);\n            }\n    }\n\n    // Do several (6)
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, 6));\n    var rem = this;\n    var result = '';\n    while (true)
{\n        var remDiv = rem.div(radixToPower);\n        var intVal =
rem.subtract(remDiv.multiply(radixToPower)).toInt();\n        var digits = intVal.toString(radix);\n        rem = remDiv;\n        if (rem.isZero()) {\n            return digits + result;\n        } else {\n            while (digits.length < 6) {\n
                digits = '0' + digits;\n            }\n            result = '' + digits + result;\n        }\n    }\n\n\n** @return {number} The high
32-bits as a signed value. *\nKotlin.Long.prototype.getHighBits = function() {\n    return this.high_;\n};\n\n\n**
@return {number} The low 32-bits as a signed value. *\nKotlin.Long.prototype.getLowBits = function() {\n    return
this.low_;\n};\n\n\n** @return {number} The low 32-bits as an unsigned value.

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*^ Kotlin.Long.prototype.getLowBitsUnsigned = function() {\n return (this.low_ >= 0) ?\n this.low_ :
Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n/**\n * @return {number} Returns the number of bits
needed to represent the absolute\n * value of this Long.\n */\n Kotlin.Long.prototype.getNumBitsAbs = function()
{\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return 64;\n } else {\n
return this.negate().getNumBitsAbs();\n } } else {\n var val = this.high_ != 0 ? this.high_ : this.low_;\n
for (var bit = 31; bit > 0; bit--) {\n if ((val & (1 << bit)) != 0) {\n break;\n } }\n return this.high_ !=
0 ? bit + 33 : bit + 1;\n };\n};\n\n/**\n * @return {boolean} Whether this value is zero.
*/\n Kotlin.Long.prototype.isZero = function() {\n return this.high_ == 0 && this.low_ == 0;\n};\n\n/**\n * @return
{boolean} Whether this value is negative.
*/\n Kotlin.Long.prototype.isNegative = function() {\n return this.high_ <
0;\n};\n\n/**\n * @return {boolean} Whether this value is odd.
*/\n Kotlin.Long.prototype.isOdd = function() {\n
return (this.low_ & 1) == 1;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return
{boolean} Whether this Long equals the other.
*/\n Kotlin.Long.prototype.equalsLong = function(other) {\n return
(this.high_ == other.high_) && (this.low_ == other.low_);\n};\n\n/**\n * @param {Kotlin.Long} other Long to
compare against.\n * @return {boolean} Whether this Long does not equal the other.
*/\n Kotlin.Long.prototype.notEqualsLong
= function(other) {\n return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n/**\n * @param
{Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.
*/\n Kotlin.Long.prototype.lessThan = function(other) {\n return this.compare(other) < 0;\n};\n\n/**\n * @param
{Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than or equal to the
other.
*/\n Kotlin.Long.prototype.lessThanOrEqual = function(other) {\n return this.compare(other) <=
0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this
Long is greater than the other.
*/\n Kotlin.Long.prototype.greaterThan = function(other) {\n return
this.compare(other) > 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return
{boolean} Whether this Long is greater than or equal to the other.
*/\n Kotlin.Long.prototype.greaterThanOrEqual
= function(other) {\n return this.compare(other) >= 0;\n};\n\n/**\n * Compares this Long with the given one.\n *
@param {Kotlin.Long} other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is
greater, and -1\n * if the given one is greater.
*/\n Kotlin.Long.prototype.compare = function(other) {\n if
(this.equalsLong(other)) {\n return 0;\n } }\n var thisNeg = this.isNegative();\n var otherNeg =
other.isNegative();\n if (thisNeg && !otherNeg) {\n return -1;\n } }\n if (!thisNeg && otherNeg) {\n
return 1;\n } }\n // at this point, the signs are the same, so subtraction will not overflow\n if (this.subtract(other).isNegative())
{\n return -1;\n } else {\n return 1;\n } }\n};\n\n/**\n * @return {!Kotlin.Long} The negation of this value.
*/\n Kotlin.Long.prototype.negate = function() {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return
Kotlin.Long.MIN_VALUE;\n } else {\n return this.not().add(Kotlin.Long.ONE);\n
}\n};\n\n/**\n * Returns the sum of this and the given Long.\n * @param {Kotlin.Long} other Long to add to
this one.\n * @return {!Kotlin.Long} The sum of this and the given Long.
*/\n Kotlin.Long.prototype.add =
function(other) {\n // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\n\n var a48 =
this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_ >>> 16;\n var a00 = this.low_ &
0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n
var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 + b00;\n c16 += c00
>>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 + b32;\n
c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &= 0xFFFF;\n return
Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n/**\n * Returns the difference of this and the
given Long.\n * @param
{Kotlin.Long} other Long to subtract from this.\n * @return {!Kotlin.Long} The difference of this and the given
Long.
*/\n Kotlin.Long.prototype.subtract = function(other) {\n return this.add(other.negate());\n};\n\n/**\n *
Returns the product of this and the given long.\n * @param {Kotlin.Long} other Long to multiply with this.\n *
@return {!Kotlin.Long} The product of this and the other.
*/\n Kotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n }
else if (other.isZero()) {\n return Kotlin.Long.ZERO;\n }
}

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}\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    return other.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    return this.isOdd() ?
Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n    if (other.isNegative()) {\n
return this.negate().multiply(other.negate());\n    } else {\n    return this.negate().multiply(other).negate();\n
    }\n } else if (other.isNegative()) {\n    return this.multiply(other.negate()).negate();\n }\n\n // If both longs are
small, use float multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n    return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can
skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 =
this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ &
0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00
= 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 += c16 >>> 16;\n
c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 * b00;\n c48 +=
c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a00 *
b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;\n c48
&= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns this
Long divided by the given one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return
{!Kotlin.Long} This Long divided by the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n    if
(other.isZero()) {\n        throw Error('division by zero');\n    } else if (this.isZero()) {\n        return
Kotlin.Long.ZERO;\n    }\n\n    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n        if (other.equalsLong(Kotlin.Long.ONE) ||\n
other.equalsLong(Kotlin.Long.NEG_ONE)) {\n            return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE
== MIN_VALUE\n        } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n            return Kotlin.Long.ONE;\n
        } 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        }\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()\n
|| 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

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bitwise-NOT of this value. */
Kotlin.Long.prototype.not = function() {
    return Kotlin.Long.fromBits(~this.low_ |
~this.high_);
};

/**
 * Returns the bitwise-AND of this Long and the given one.
 * @param
 {Kotlin.Long} other The Long with which to AND.
 * @return {!Kotlin.Long} The bitwise-AND of this and the
other.
 */
Kotlin.Long.prototype.and = function(other) {
    return Kotlin.Long.fromBits(this.low_ & other.low_ |
        this.high_ & other.high_);
};

/**
 * Returns the bitwise-OR of this Long and the given
one.
 * @param {Kotlin.Long} other The Long with which to OR.
 * @return {!Kotlin.Long} The bitwise-OR of
this and the other.
 */
Kotlin.Long.prototype.or = function(other) {
    return Kotlin.Long.fromBits(this.low_ |
other.low_ |
        this.high_ | other.high_);
};

/**
 * Returns the bitwise-XOR of this Long
and the given one.
 * @param {Kotlin.Long} other The Long with which to XOR.
 * @return {!Kotlin.Long}
The bitwise-XOR of this and the other.
 */
Kotlin.Long.prototype.xor = function(other) {
    return
Kotlin.Long.fromBits(this.low_ ^ other.low_ |
        this.high_ ^
other.high_);
};

/**
 * Returns this Long with bits shifted to the left by the given amount.
 * @param
 {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the left by the
given amount.
 */
Kotlin.Long.prototype.shiftLeft = function(numBits) {
    numBits &= 63;
    if (numBits == 0)
    {
        return this;
    }
    else {
        var low = this.low_;
        if (numBits < 32) {
            var high = this.high_;
            return
Kotlin.Long.fromBits(
                low << numBits |
                (high << numBits) |
                (low >>> (32 - numBits)));
        }
        else {
            return
Kotlin.Long.fromBits(0, low << (numBits - 32));
        }
    }
};

/**
 * Returns this Long with
bits shifted to the right by the given amount.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the right by the
given amount.
 */
Kotlin.Long.prototype.shiftRight =
function(numBits) {
    numBits &= 63;
    if (numBits == 0) {
        return
this;
    }
    else {
        var high = this.high_;
        if (numBits < 32) {
            var low = this.low_;
            return
Kotlin.Long.fromBits(
                (low >>> numBits) |
                (high << (32 - numBits)),
                high >> numBits);
        }
        else {
            return
Kotlin.Long.fromBits(
                high >> (numBits - 32),
                high >= 0 ? 0 : -1);
        }
    }
};

/**
 * Returns this Long with bits shifted to the right by the given amount, with
 * zeros placed into the
new leading bits.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long}
This shifted to the right by the given amount, with
 * zeros placed into the new leading bits.
 */
Kotlin.Long.prototype.shiftRightUnsigned = function(numBits) {
    numBits &= 63;
    if (numBits == 0) {
        return
this;
    }
    else {
        var high = this.high_;
        if (numBits < 32) {
            var low = this.low_;
            return
Kotlin.Long.fromBits(
                (low >>> numBits) |
                (high << (32 - numBits)),
                high >>> numBits);
        }
        else if (numBits == 32) {
            return
Kotlin.Long.fromBits(high, 0);
        }
        else {
            return
Kotlin.Long.fromBits(high >>> (numBits - 32), 0);
        }
    }
};

// Support for
Kotlin
Kotlin.Long.prototype.equals = function (other) {
    return other instanceof Kotlin.Long &&
this.equalsLong(other);
};

Kotlin.Long.prototype.compareTo_11rb$ =
Kotlin.Long.prototype.compare;

Kotlin.Long.prototype.inc = function() {
    return
this.add(Kotlin.Long.ONE);
};

Kotlin.Long.prototype.dec = function() {
    return
this.add(Kotlin.Long.NEG_ONE);
};

Kotlin.Long.prototype.valueOf = function() {
    return
this.toNumber();
};

Kotlin.Long.prototype.unaryPlus = function() {
    return
this;
};

Kotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;

Kotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;

Kotlin.Long.prototype.rangeTo = function (other) {
    return new
Kotlin.kotlin.ranges.LongRange(this, other);
};

"/

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code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

/**
 * @param {string} id
 * @param {Object} declaration
 */
Kotlin.defineModule = function (id, declaration)
{
};

Kotlin.defineInlineFunction = function(tag, fun) {
    return fun;
};

Kotlin.wrapFunction =
function(fun) {
    var f = function() {
        f = fun();
        return f.apply(this, arguments);
    };
    return
function() {
        return f.apply(this, arguments);
    };
};

Kotlin.isTypeOf = function(type) {
    return
function (object) {
        return typeof object === type;
    };
};

Kotlin.isInstanceOf = function (klass) {
    return
function (object) {
        return Kotlin.isType(object, klass);
    };
};

Kotlin.orNull = function (fn) {

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return function (object) {\n    return object == null || fn(object);\n    }\n};\n\nKotlin.andPredicate = function (a, b) {\n    return function (object) {\n        return a(object) && b(object);\n    }\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data) {\n};\n\nKotlin.suspendCall = function (value) {\n    return value;\n};\n\nKotlin.coroutineResult = function (qualifier) {\n    throwMarkerError();\n};\n\nKotlin.coroutineController = function (qualifier) {\n    throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function (qualifier) {\n    throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function (value, qualifier) {\n    throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function (typeParameter) {\n    throwMarkerError();\n};\n\nfunction throwMarkerError() {\n    throw new Error(\n        \"This marker function should never be called. \" +\n        \"Looks like compiler did not eliminate it properly. \" +\n        \"Please, report an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function (id, defaultValue) {\n    return function () {\n        return defaultValue;\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\nKotlin.compareTo = function (a, b) {\n    var typeA = typeof a;\n    if (typeA === \"number\") {\n        if (typeof b === \"number\") {\n            return Kotlin.doubleCompareTo(a, b);\n        }\n        return Kotlin.primitiveCompareTo(a, b);\n    }\n    if (typeA === \"string\" || typeA === \"boolean\") {\n        return Kotlin.primitiveCompareTo(a, b);\n    }\n    return a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n    return a < b ? -1 : a > b ? 1 : 0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n    if (a < b) return -1;\n    if (a > b) return 1;\n\n    if (a === b) {\n        if (a !== 0) return 0;\n\n        var ia = 1 / a;\n        return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n    }\n\n    return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function (value) {\n    return Kotlin.toChar(value + 1);\n};\n\nKotlin.charDec = function (value) {\n    return Kotlin.toChar(value - 1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n    return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function () {\n    var buf = new ArrayBuffer(8);\n    var 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\nKotlin.doubleToRawBits = function (value) {\n    bufFloat64[0] = value;\n    return Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n};\n\nKotlin.doubleFromBits = function (value) {\n    bufInt32[lowIndex] = value.low_;\n    bufInt32[highIndex] = value.high_;\n    return bufFloat64[0];\n};\n\nKotlin.floatToBits = function (value) {\n    return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\n};\n\nKotlin.floatToRawBits = function (value) {\n    bufFloat32[0] = value;\n    return bufInt32[0];\n};\n\nKotlin.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.\nKotlin.doubleSignBit = function (value) {\n    bufFloat64[0] = value;\n    return bufInt32[highIndex] & 0x80000000;\n};\n\nKotlin.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\nKotlin.ensureNotNull = function (x) {\n    return x !== null ? x : Kotlin.throwNPE();\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\nif (typeof String.prototype.startsWith === \"undefined\") {\n    String.prototype.startsWith = function (searchString, position) {\n        position = position || 0;\n        return this.lastIndexOf(searchString, position) === position;\n    }\n}\n\nif (typeof String.prototype.endsWith === \"undefined\") {\n    String.prototype.endsWith = function (searchString, position) {\n        var subjectString = this.toString();\n        if (position === undefined || position > subjectString.length) {\n            position = subjectString.length;\n        }\n    }\n}
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    position -= searchString.length;\n    var lastIndex = subjectString.indexOf(searchString, position);\n    return
lastIndex !== -1 && lastIndex === position;\n    };\n}\n// ES6 Math polyfills\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}\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\n(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    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\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        }\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\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                    if (x > upper_taylor_2_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)));\n                    }\n                }\n            }\n            else if (x <= -taylor_n_bound)\n            {\n                return -asinh(-x);\n            }\n            else\n            {\n                // approximation by taylor series in x at 0 up to
order 2\n                var result = x;\n                if (Math.abs(x) >= taylor_2_bound)\n                {\n                    var x3 =
x * x * x;\n                    // approximation by taylor series in x at 0 up to order 4\n                    result -= x3 / 6;\n                }\n                return result;\n            }\n        };\n        Math.asinh = asinh;\n    }\n\n    if (typeof Math.acosh ===
\"undefined\")\n    {\n        Math.acosh = function(x) {\n            if (x < 1)\n            {\n                return NaN;\n            }\n            else if
(x - 1 >= taylor_n_bound)\n            {\n                if (x > upper_taylor_2_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                    return Math.log(x + Math.sqrt(x * x - 1));\n                }\n            }\n            else\n            {\n                var y = Math.sqrt(x - 1);\n                // approximation by taylor series in y at 0 up to
order 2\n                var result = y;\n                if (y >= taylor_2_bound)\n                {\n                    var y3 = y * y *
y;\n                    // approximation by taylor series in y at 0 up to order 4\n                    result -= y3 / 12;\n                }\n                return Math.sqrt(2)
* result;\n            }\n        };\n    }\n\n    if (typeof Math.atanh === \"undefined\") {\n        Math.atanh = 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            }\n            return Math.log((1 + x) / (1 - x)) / 2;\n        };\n    }\n\n    if (typeof Math.log1p === \"undefined\") {\n        Math.log1p
= function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var x2 = x * x;\n                var x3 = x2 *
x;\n                var x4 = x3 * x;\n                // approximation by taylor series in x at 0 up to order 4\n                return (-
x4 / 4 + x3 / 3 - x2 / 2 + x);\n            }\n            return Math.log(x + 1);\n        };\n    }\n\n    if (typeof Math.expm1

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=== \"undefined\") {\n      Math.expm1 = function(x) {\n          if (Math.abs(x)
< taylor_n_bound) {\n              var x2 = x * x;\n              var x3 = x2 * x;\n              var x4 = x3 * x;\n          //
approximation by taylor series in x at 0 up to order 4\n          return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n          }\n      return Math.exp(x) - 1;\n      };\n  }()\n});\n\nif (typeof Math.hypot === \"undefined\") {\n  Math.hypot =
function() {\n      var y = 0;\n      var length = arguments.length;\n      for (var i = 0; i < length; i++) {\n
if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n          return Infinity;\n          }\n      y +=
arguments[i] * arguments[i];\n      }\n      return Math.sqrt(y);\n      };\n  }\n}\n\nif (typeof Math.log10 === \"undefined\") {\n
Math.log10 = function(x) {\n      return Math.log(x) * Math.LOG10E;\n      };\n  }\n}\n\nif (typeof Math.log2 ===
\"undefined\") {\n  Math.log2 = function(x) {\n      return Math.log(x) * Math.LOG2E;\n      };\n  }\n}\n\nif
(typeof Math.clz32 === \"undefined\") {\n  Math.clz32 = (function(log, LN2) {\n      return function(x) {\n
var asUInt = x >>> 0;\n      if (asUInt === 0) {\n          return 32;\n          }\n      return 31 - (log(asUInt) /
LN2 | 0) | 0; // the \"| 0\" acts like math.floor\n      };\n  })(Math.log, Math.LN2);\n  }\n}\n\n// For HtmlUnit and
PhantomJs\n\nif (typeof ArrayBuffer.isView === \"undefined\") {\n  ArrayBuffer.isView = function(a) {\n
return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n
};\n  }\n}\n\nif (typeof Array.prototype.fill === \"undefined\") {\n  // Polyfill from https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n  Array.prototype.fill = function() {\n  //
Steps 1-2.\n      if (this == null) {\n          throw new TypeError('this is null or not defined');\n          }\n      var O =
Object(this);\n      // Steps 3-5.\n          var len = O.length >>> 0;\n      // Steps 6-7.\n          var start = arguments[1];\n          var relativeStart = start >>
0;\n      // Step 8.\n          var k = relativeStart < 0 ?\n          Math.max(len + relativeStart, 0) : \n          Math.min(relativeStart, len);\n      // Steps 9-10.\n          var end = arguments[2];\n          var relativeEnd = end ===
undefined ?\n          len : end >> 0;\n      // Step 11.\n          var final = relativeEnd < 0 ?\n          Math.max(len +
relativeEnd, 0) : \n          Math.min(relativeEnd, len);\n      // Step 12.\n          while (k < final) {\n              O[k] = value;\n              k++;\n          }\n      // Step 13.\n          return O;\n      };\n  }\n}\n\n(function() {\n  function normalizeOffset(offset,
length) {\n      if (offset < 0) return Math.max(0, offset + length);\n      return Math.min(offset, length);\n      }\n  function typedArraySlice(begin, end) {\n      if (typeof end === \"undefined\") {\n          end = this.length;\n          }\n      begin = normalizeOffset(begin
|| 0, this.length);\n      end = Math.max(begin, normalizeOffset(end, this.length));\n      return new
this.constructor(this.subarray(begin, end));\n      }\n  var arrays = [Int8Array, Int16Array, Uint16Array,
Int32Array, Float32Array, Float64Array];\n  for (var i = 0; i < arrays.length; ++i) {\n      var TypedArray =
arrays[i];\n      if (typeof TypedArray.prototype.fill === \"undefined\") {\n          TypedArray.prototype.fill =
Array.prototype.fill;\n          }\n      if (typeof TypedArray.prototype.slice === \"undefined\") {\n          TypedArray.prototype.slice = typedArraySlice;\n          }\n      Object.defineProperty(TypedArray.prototype, 'slice', {\n          value: typedArraySlice\n          });\n      }\n  }\n}\n\n// Patch apply to work with TypedArrays if needed.\n  try {\n      (function() {})).apply(null, new
Int32Array(0))\n  } catch (e) {\n      var apply = Function.prototype.apply;\n      Object.defineProperty(Function.prototype, 'apply', {\n          value: function(self, array)
{\n              return apply.call(this, self, [].slice.call(array));\n          }\n      });\n      }\n  }\n}\n\n// Patch map to work
with TypedArrays if needed.\n  for (var i = 0; i < arrays.length; ++i) {\n      var TypedArray = arrays[i];\n      if
(typeof TypedArray.prototype.map === \"undefined\") {\n          Object.defineProperty(TypedArray.prototype,
'map', {\n              value: function(callback, self) {\n                  return [].slice.call(this).map(callback, self);\n              }\n          });\n      }\n      }\n  }\n}\n\n// Patch sort to work with TypedArrays if needed.\n  // TODO: consider to
remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n  var
totalOrderComparator = function (a, b) {\n      if (a < b) return -1;\n      if (a > b) return 1;\n      if (a === b) {\n          if (a !== 0) return 0;\n          var ia = 1 / a;\n          return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n          }\n      return a !== a ? (b !== b ? 0 : 1) : -1\n      };\n  for (var i = 0; i < arrays.length; ++i) {\n      var TypedArray =
arrays[i];\n      if (typeof TypedArray.prototype.sort === \"undefined\") {\n          Object.defineProperty(TypedArray.prototype, 'sort', {\n              value: function(compareFunction) {\n                  return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n              }\n          });\n      }\n  }\n}

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})\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.Kind = {\n CLASS: \"class\", \n INTERFACE: \"interface\", \n OBJECT:
\"object\"\n};\n\nKotlin.callGetter = function (thisObject, klass, propertyName) {\n var propertyDescriptor =
Object.getOwnPropertyDescriptor(klass, propertyName);\n if (propertyDescriptor != null
&& propertyDescriptor.get != null) {\n return propertyDescriptor.get.call(thisObject);\n }\n\n
propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor !=
null && \"value\" in propertyDescriptor) {\n return thisObject[propertyName];\n }\n\n return
Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function
(thisObject, klass, propertyName, value) {\n var propertyDescriptor = Object.getOwnPropertyDescriptor(klass,
propertyName);\n if (propertyDescriptor != null && propertyDescriptor.set != null) {\n
propertyDescriptor.set.call(thisObject, value);\n return;\n }\n\n propertyDescriptor =
Object.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor != null && \"value\" in
propertyDescriptor) {\n thisObject[propertyName] = value;\n return;\n }\n\n Kotlin.callSetter(thisObject,
Object.getPrototypeOf(klass),
propertyName, value);\n};\n\nfunction isInheritanceFromInterface(ctor, iface) {\n if (ctor === iface) return
true;\n\n var metadata = ctor.$metadata$;\n if (metadata != null) {\n var interfaces = metadata.interfaces;\n
for (var i = 0; i < interfaces.length; i++) {\n if (isInheritanceFromInterface(interfaces[i], iface)) {\n
return true;\n }\n }\n }\n\n var superPrototype = ctor.prototype != null ?
Object.getPrototypeOf(ctor.prototype) : null;\n var superConstructor = superPrototype != null ?
superPrototype.constructor : null;\n return superConstructor != null &&
isInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n * \n * @param {*} object\n * @param
{Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n if (klass ===
Object) {\n switch (typeof object) {\n case \"string\":\n case \"number\":\n case
\"boolean\":\n case \"function\":\n return true;\n default:\n return object instanceof Object;\n
}\n }\n\n if (object == null || klass == null || (typeof object !== 'object' && typeof object !== 'function')) {\n
return false;\n }\n\n if (typeof klass === \"function\" && object instanceof klass) {\n return true;\n
}\n\n var proto = Object.getPrototypeOf(klass);\n var constructor = proto != null ? proto.constructor : null;\n if
(constructor != null && \"$metadata$\" in constructor) {\n var metadata = constructor.$metadata$;\n if
(metadata.kind === Kotlin.Kind.OBJECT) {\n return object === klass;\n }\n }\n\n var klassMetadata
= klass.$metadata$;\n\n // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns \"object\",
nevertheless they can be used in RHS of instanceof\n if (klassMetadata == null) {\n return object instanceof
klass;\n }\n\n if (klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {\n return
isInheritanceFromInterface(object.constructor, klass);\n }\n\n return false;\n};\n\nKotlin.isNumber = function (a)
{\n return typeof a === \"number\" || a instanceof Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n return
value instanceof Kotlin.BoxedChar;\n};\n\nKotlin.isComparable = function (value) {\n var type = typeof value;\n
return type === \"string\" ||\n type === \"boolean\" ||\n Kotlin.isNumber(value) ||\n
Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n return
typeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\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\n\npublic class Enum<T> : Enum<T>> : Comparable<Enum<T>> {\n @JsName(\"name$\") private var
_name: String = \"\"\n @JsName(\"ordinal$\") private var _ordinal: Int = 0\n val name: String get() =
_name\n val ordinal: Int get() = _ordinal\n override fun compareTo(other: Enum<T>) =
ordinal.compareTo(other.ordinal)\n\n override fun equals(other: Any?) = this === other\n\n override fun
hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\n\n override fun toString() = name\n\n companion

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object\n}",null,"/*\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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\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/**\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 <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

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[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

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*^@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 where
the behavior is unspecified.\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 where the
behavior is unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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 [IndexOutOfBoundsException] except in
Kotlin/JS where the behavior is unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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 [IndexOutOfBoundsException]
except in Kotlin/JS where the behavior is unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where
the behavior is unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is
unspecified.\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 [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\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

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[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

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* Kotlin internal inline operator fun IntArray.component4(): Int {
    return get(3)
}
* Returns 4th element from the array.
* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except
in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun LongArray.component4(): Long {
    return get(3)
}
* Returns 4th element from the array.
* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun FloatArray.component4(): Float {
    return get(3)
}
* Returns 4th element from the array.
* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun DoubleArray.component4(): Double {
    return get(3)
}
* Returns 4th element from the array.
* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun BooleanArray.component4(): Boolean {
    return get(3)
}
* Returns 4th element from the array.
* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun CharArray.component4(): Char {
    return get(3)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun <T> Array<out T>.component5(): T {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator
fun ByteArray.component5(): Byte {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun ShortArray.component5(): Short {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun IntArray.component5(): Int {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun LongArray.component5(): Long {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun FloatArray.component5(): Float {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun DoubleArray.component5(): Double {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun BooleanArray.component5(): Boolean {
    return get(4)
}
* Returns 5th element from the array.
* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
* Kotlin internal inline operator fun CharArray.component5(): Char {
    return get(4)
}
* Returns true if [element] is found in the array.
* Kotlin public operator fun
<@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {
    return indexOf(element) >= 0
}
* Returns true if [element] is found in the array.
* Kotlin public operator fun

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`ByteArray.contains(element: Byte): Boolean` {`\n return indexOf(element) >= 0`}`\n\n`* Returns `true`` if [element] is found in the array.`\n */`
`ShortArray.contains(element: Short): Boolean` {`\n return indexOf(element) >= 0`}`\n\n`* Returns `true`` if [element] is found in the array.`\n */`
`IntArray.contains(element: Int): Boolean` {`\n return indexOf(element) >= 0`}`\n\n`* Returns `true`` if [element] is found in the array.`\n */`
`LongArray.contains(element: Long): Boolean` {`\n return indexOf(element) >= 0`}`\n\n`* Returns `true`` if [element] is found in the array.`\n */`
`FloatArray.contains(element: Float): Boolean` {`\n return indexOf(element) >= 0`}`\n\n`* Returns `true`` if [element] is found in the array.`\n */`
`DoubleArray.contains(element: Double): Boolean` {`\n return indexOf(element) >= 0`}`\n\n`* Returns `true`` if [element] is found in the array.`\n */`
`BooleanArray.contains(element: Boolean): Boolean` {`\n return indexOf(element) >= 0`}`\n\n`* Returns `true`` if [element] is found in the array.`\n */`
`CharArray.contains(element: Char): Boolean` {`\n return indexOf(element) >= 0`}`\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`
`*\npublic expect fun <T> Array<out T>.elementAt(index: Int): T``\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`
`*\npublic expect fun ByteArray.elementAt(index: Int): Byte``\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`
`*\npublic expect fun ShortArray.elementAt(index: Int): Short``\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`
`*\npublic expect fun IntArray.elementAt(index: Int): Int``\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`
`*\npublic expect fun LongArray.elementAt(index: Int): Long``\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`
`*\npublic expect fun FloatArray.elementAt(index: Int): Float``\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`
`*\npublic expect fun DoubleArray.elementAt(index: Int): Double``\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`
`*\npublic expect fun BooleanArray.elementAt(index: Int): Boolean``\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`
`*\npublic expect fun CharArray.elementAt(index: Int): Char``\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@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, default: () -> T): T` {`\n return if (index >= 0 && index <= lastIndex) get(index) else default(index)`}`\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@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, default: () -> Byte): Byte` {`\n return if (index >= 0 && index <= lastIndex) get(index) else default(index)`}`\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@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, default: () -> Short): Short` {`\n return if (index >= 0 && index <=`

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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
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

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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 samples.collections.Collections.Elements.elementAtOrNull\n
*\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@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@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@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@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@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@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@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@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@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@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@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@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@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@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@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@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@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate:

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(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\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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
*/\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\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

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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 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 * 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 * 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 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)) 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@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]

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function if the [index] is out of bounds of this array.\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@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@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@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@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@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@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@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 */\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 */\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 */\npublic fun
ShortArray.getOrNull(index: Int): Short? {\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
*/\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 */\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 */\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 */\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 */\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
*/\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
*/

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*^public fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {
    if (element == null) {
        for (index in indices) {
            if (this[index] == null) {
                return index
            }
        }
    } else {
        for (index in indices) {
            if (element == this[index]) {
                return index
            }
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun ByteArray.indexOf(element: Byte): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun ShortArray.indexOf(element: Short): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun IntArray.indexOf(element: Int): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun LongArray.indexOf(element: Long): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun FloatArray.indexOf(element: Float): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun DoubleArray.indexOf(element: Double): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun BooleanArray.indexOf(element: Boolean): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns first index of [element], or -1 if the array does not contain element.

*^public fun CharArray.indexOf(element: Char): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

*^public inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

* Returns index of the first

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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        {\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 (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 * @throws [NoSuchElementException] if the array is empty.\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 * @throws [NoSuchElementException] if the array is empty.\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 * @throws [NoSuchElementException] if the array is empty.\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 * @throws [NoSuchElementException] if the array is
empty.\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 * @throws [NoSuchElementException]
if the array is empty.\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 * @throws [NoSuchElementException] if the array is empty.\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 * @throws [NoSuchElementException] if the array is empty.\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 * @throws [NoSuchElementException] if the array is

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empty.\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 *
@throws [NoSuchElementException] if the array is empty.\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 * @throws [NoSuchElementException] if no such element is found.\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 * @throws [NoSuchElementException] if no such element is found.\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 * @throws [NoSuchElementException] if no such element is found.\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 predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\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("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\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("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\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("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\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("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\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("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the
last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\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("Array
contains no element matching the predicate.")\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        }\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

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[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 */\npublic fun
FloatArray.lastIndexOf(element: Float): 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 DoubleArray.lastIndexOf(element: Double): 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
BooleanArray.lastIndexOf(element: Boolean): 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 CharArray.lastIndexOf(element: Char): 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 the last element, or `null` if the
array is empty.\n */\npublic fun <T> Array<out T>.lastOrNull(): T? {\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 */\npublic fun ByteArray.lastOrNull():
Byte? {\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 */\npublic fun ShortArray.lastOrNull(): Short? {\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 */\npublic fun IntArray.lastOrNull(): Int?
{\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 */\npublic fun LongArray.lastOrNull(): Long? {\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 */\npublic fun FloatArray.lastOrNull(): Float? {\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
*/\npublic fun DoubleArray.lastOrNull(): Double? {\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 */\npublic fun BooleanArray.lastOrNull(): Boolean? {\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
*/\npublic fun CharArray.lastOrNull(): Char? {\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 */\npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T?
{\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 */\npublic
inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\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 */\npublic inline fun
ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\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 */\npublic inline fun
IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\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

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matching the given [predicate], or `null`

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if no such element was found.\n *^public 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\n element\n }\n return null\n}\n\n *^Returns the last element matching the given [predicate], or `null` if no\n such element was found.\n *^public 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 *^Returns the last element matching the given [predicate], or `null` if no such element\n was found.\n *^public inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n for\n (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n *^Returns the\n last element matching the given [predicate], or `null` if no such element was found.\n *^public inline fun\n BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n for (index in this.indices.reversed()) {\n\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n *^Returns\n the last element matching the given [predicate], or `null` if no such element was found.\n *^public inline fun\n CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n val\n element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n *^Returns a\n random element from this array.\n * ^\n * @throws NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun <T> Array<out T>.random(): T {\n return\n random(Random)\n}\n\n *^Returns a random element from this array.\n * ^\n * @throws\n NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun ByteArray.random(): Byte {\n return\n random(Random)\n}\n\n *^Returns a random element from\n this array.\n * ^\n * @throws NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun ShortArray.random(): Short {\n return\n random(Random)\n}\n\n *^Returns a random element from this array.\n * ^\n * @throws\n NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun IntArray.random(): Int {\n return\n random(Random)\n}\n\n *^Returns a random element from this\n array.\n * ^\n * @throws NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun LongArray.random(): Long {\n return\n random(Random)\n}\n\n *^Returns a random element from this array.\n * ^\n * @throws\n NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun FloatArray.random(): Float {\n return\n random(Random)\n}\n\n *^Returns a random element from\n this array.\n * ^\n * @throws NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun DoubleArray.random(): Double {\n\n return\n random(Random)\n}\n\n *^Returns a random element from this array.\n * ^\n * @throws\n NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun BooleanArray.random(): Boolean {\n return\n random(Random)\n}\n\n *^Returns a random element\n from this array.\n * ^\n * @throws NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun CharArray.random(): Char {\n return\n random(Random)\n}\n\n *^Returns a random element from this array\n using the specified source of randomness.\n * ^\n * @throws NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n public fun <T> Array<out T>.random(random: Random): T {\n if (isEmpty())\n throw\n NoSuchElementException("Array is empty.")\n return\n get(random.nextInt(size))\n}\n\n *^Returns a\n random element from this array using the specified source of randomness.\n * ^\n * @throws\n NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n public fun\n ByteArray.random(random: Random): Byte {\n if (isEmpty())\n throw\n NoSuchElementException("Array is\n empty.")\n return\n get(random.nextInt(size))\n}\n\n *^Returns a random element from this array using the\n specified source of randomness.\n * ^\n * @throws NoSuchElementException if this array is empty.\n\n *^@SinceKotlin("1.3")\n public fun\n ShortArray.random(random: Random): Short {\n if (isEmpty())\n
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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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic 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 */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 */

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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
*\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 IllegalArgumentException("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
IllegalArgumentException("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 ShortArray.single(): Short {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("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 IntArray.single(): Int {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("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 LongArray.single(): Long {\n    return when (size) {\n        0 -> throw
NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("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 FloatArray.single(): Float

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{\n  return when (size) {\n    0 -> throw NoSuchElementException("Array is empty.")\n    1 -> this[0]\n  }\n  else -> throw IllegalArgumentException("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 DoubleArray.single(): Double {\n  return when (size) {\n    0 -> throw NoSuchElementException("Array is empty.")\n    1 -> this[0]\n    else -> throw IllegalArgumentException("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 BooleanArray.single(): Boolean {\n  return when (size) {\n    0 -> throw NoSuchElementException("Array is empty.")\n    1 -> this[0]\n    else -> throw\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 CharArray.single(): Char {\n  return when (size) {\n    0 -> throw NoSuchElementException("Array is empty.")\n    1 -> this[0]\n    else -> throw IllegalArgumentException("Array has more than one element.")\n  }\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 <T> Array<out T>.single(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) throw\n        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 T\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 ByteArray.single(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) throw\n        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 Byte\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 ShortArray.single(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) throw\n        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 Short\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 IntArray.single(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) throw\n        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 Int\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 LongArray.single(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)\n        throw\n          IllegalArgumentException("Array contains more than one matching element.")\n      single = element\n      found = true\n    }\n  }\n  if\n    (!found) throw\n      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\n        IllegalArgumentException("Array contains more than one matching element.")\n      single = element\n      found = true\n    }\n  }\n  if

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(!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\n the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline\n fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n var single: Double? = null\n var found =\n false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw\n NoSuchElementException("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\n 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\n element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n var single:\n Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found)\n throw NoSuchElementException("Array contains more than one matching element.")\n single =\n element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no\n 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\n one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n return if (size == 1) this[0] else\n null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic\n fun ByteArray.singleOrNull(): Byte? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single\n element, or `null` if the array is empty or has more than one element.\n */\npublic fun ShortArray.singleOrNull():\n Short? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty\n or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n return if (size == 1) this[0] else\n null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic\n fun LongArray.singleOrNull(): Long? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single\n element, or `null` if the array is empty or has more than one element.\n */\n\npublic fun FloatArray.singleOrNull(): Float? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns\n single element, or `null` if the array is empty or has more than one element.\n */\npublic fun\n DoubleArray.singleOrNull(): Double? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single\n element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():\n Boolean? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is\n empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n return if (size == 1)\n this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not\n found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -\n > Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this)\n {\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\n [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun\n ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n var single: Byte? = null\n var found = false\n\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element\n matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic\n inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n var single: Short? = null\n var\n found = false\n for

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(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\n matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic\n inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n    var single: Int? = null\n    var found =\n false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single =\n element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the\n single element matching the given [predicate], or `null` if element was not found or more than one element was\n found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n    var single:\n Long? = null\n    var found = false\n\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\n matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic\n inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {\n    var single: Float? = null\n    var\n found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single\n = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the\n single element matching the given [predicate], or `null` if element was not found or more than one element was\n found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n    var single:\n Double? = null\n\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\n element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean?\n {\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\n found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) ->\n Boolean): Char? {\n    var single:\n Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found)\n return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return\n single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws\n IllegalArgumentException if [n] is negative.\n * @sample\n 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 n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws\n IllegalArgumentException if [n] is negative.\n * @sample\n 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\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n]\n elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n * @sample\n 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 n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws\n IllegalArgumentException if [n] is negative.\n * @sample\n samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size -\n n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws\n IllegalArgumentException if [n] is negative.\n * @sample\n samples.collections.Collections.Transformations.drop\n
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*^public fun LongArray.drop(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun FloatArray.drop(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun DoubleArray.drop(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun BooleanArray.drop(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun CharArray.drop(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun <T> Array<out T>.dropLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun ByteArray.dropLast(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun ShortArray.dropLast(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun IntArray.dropLast(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun LongArray.dropLast(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun FloatArray.dropLast(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun DoubleArray.dropLast(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
^public fun BooleanArray.dropLast(n: Int):

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List<Boolean> { \n  require(n >= 0) { \n    "Requested element count $n is less than zero.\n" \n  } \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) { \n    "Requested element count $n is less than zero.\n" \n  } \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
(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

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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
*\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 *\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 *\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 *\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 *\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 *\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 *\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
*\n * @sample samples.collections.Collections.Transformations.drop\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 *\n * @sample samples.collections.Collections.Transformations.drop\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 *\n * @sample samples.collections.Collections.Transformations.drop\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 *\n * @sample samples.collections.Collections.Transformations.drop\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
matching the given [predicate].\n * \n *\n * @sample samples.collections.Collections.Transformations.drop\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 *\n * @sample samples.collections.Collections.Transformations.drop\n
*\npublic inline fun FloatArray.filter(predicate: (Float) -

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> Boolean): List<Float> {\n  return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\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 */\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 */\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
*/\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 */\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 */\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
*/\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 */\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 */\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 */\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 */\npublic inline fun
BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n  return
filterIndexedTo(ArrayList<Boolean>(), 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 */\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 */\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 */\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 */\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 */\npublic inline fun <C :

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MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean):
C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.
public
inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int,
Short) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.
public inline fun <C :
MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.
public inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {
    forEachIndexed {
        index, element ->
            if (predicate(index, element)) destination.add(element)
    }
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.
public inline fun <C : MutableCollection<in Float>>
FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {
    forEachIndexed {
        index, element ->
            if (predicate(index, element)) destination.add(element)
    }
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
@param [predicate] function
that takes the index of an element and the element itself
and returns the result of predicate evaluation on the
element.
public inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C,
predicate: (index: Int, Double) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index,
            element)) destination.add(element)
    }
    return destination
}
Append all elements matching the
given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and
the element itself
and returns the result of predicate evaluation on the element.
public inline fun <C :
MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) ->
Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}
Append all elements matching
the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element
and the element itself
and returns the result of predicate evaluation on the element.
public inline fun <C :
MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean):
C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
Returns a list containing all elements that are instances of specified type parameter
R.
public inline fun <reified R> Array<*>.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].
public inline fun <reified R, C : MutableCollection<in R>>
Array<*>.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].
public inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean):
List<T> {
    return filterNotTo(ArrayList<T>(), predicate)
}
Returns a list containing all elements not
matching the given [predicate].
public inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean):
List<Byte> {
    return filterNotTo(ArrayList<Byte>(), predicate)
}
Returns a list containing all
elements not matching the given [predicate].
public inline fun ShortArray.filterNot(predicate: (Short) ->

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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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 destination\n}\n\n/**\n * Appends all
elements not
matching the given [predicate] to the given [destination].\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 */\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 */\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 */\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 */\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 */\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 */\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 */\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if

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(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\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 */\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 */\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
*/\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 */\npublic
inline fun <C : MutableCollection<in Long>> LongArray.filterTo(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 matching the given [predicate] to the given [destination].\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 */\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 */\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 */\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

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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 = 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

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    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 (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 * \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

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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
(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

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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
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

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downTo 0) {\n    if (!predicate(this[index])) {\n        return drop(index + 1)\n    }\n} return
toList()\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 * 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 * 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 * 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 * 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 * 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 * Returns a list containing first elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun <T> Array<out T>.takeWhile(predicate: (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 *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n    val list = ArrayList<Byte>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n} return list\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n    val list =
ArrayList<Short>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n}
return list\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeWhile(predicate: (Int) ->
Boolean): List<Int> {\n    val list = ArrayList<Int>()\n    for (item in this) {\n        if (!predicate(item))\n
break\n        list.add(item)\n    }\n} return list\n\n/**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun
LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n    val list = ArrayList<Long>()\n    for (item
in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n} return list\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeWhile(predicate:
(Float) -> Boolean): List<Float> {\n    val list = ArrayList<Float>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n} return list\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n

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*^public
inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n  val list =
ArrayList<Double>()\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 *^public inline fun BooleanArray.takeWhile(predicate:
(Boolean) -> Boolean): List<Boolean> {\n  val list = ArrayList<Boolean>()\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 *^public inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n  val list =
ArrayList<Char>()\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 *^public fun <T> Array<T>.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 *^public fun ByteArray.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 *^public fun ShortArray.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 *^public fun IntArray.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 *^public fun LongArray.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 *^public fun
FloatArray.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 *^public 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 *^public 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 *^public 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 * Returns a list with elements in reversed order.\n *^public 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 *^public 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 *^public 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 *^public fun IntArray.reversed(): List<Int> {\n  if (isEmpty()) return emptyList()\n
}

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val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed
order.\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
*/\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
*/\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 */\npublic fun 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
* 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) sortWith(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)
sortWith(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

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sortWith(reverseOrder())\n}\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 * \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

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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

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    sorting.\n * \n public fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {\n    if (isEmpty())
    return this\n    return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n * \n public fun
ByteArray.sortedArrayDescending(): ByteArray {\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 public fun ShortArray.sortedArrayDescending(): ShortArray {\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 public fun IntArray.sortedArrayDescending():
IntArray {\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 public fun LongArray.sortedArrayDescending(): LongArray {\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 public fun FloatArray.sortedArrayDescending(): FloatArray
{\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 public fun
DoubleArray.sortedArrayDescending(): DoubleArray {\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 public fun CharArray.sortedArrayDescending(): CharArray {\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 according 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>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n    if (isEmpty()) return this\n    return
this.copyOf().apply { sortWith(comparator) }\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 * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n * \n public inline fun <T, R : Comparable<R>>
Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\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 public inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline
selector: (Byte) -> R?): List<Byte> {\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 public
inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\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 public inline fun <R : Comparable<R>>
IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\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 public inline fun <R : Comparable<R>>
LongArray.sortedBy(crossinline
selector: (Long) -> R?): List<Long> {\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 public
inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\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 public inline fun <R : Comparable<R>>
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 public inline fun <R : Comparable<R>>

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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 */\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.\n
 */\npublic fun 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
 */\npublic fun DoubleArray.sortedDescending(): List<Double> {\n  return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n

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* 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 * \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 * \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 public expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * \n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n @SinceKotlin("1.1")\n public expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * \n * Nested arrays are treated as lists too.\n * \n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n * \n @SinceKotlin("1.1")\n public expect fun <T> Array<out T>.contentDeepToString(): String\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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@SinceKotlin("1.1")\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@SinceKotlin("1.1")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.1")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.1")\npublic expect fun ByteArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.1")\npublic expect fun ShortArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.1")\npublic expect fun IntArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.1")\npublic expect fun LongArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.1")\npublic expect fun FloatArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin("1.1")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is

[List].\n * \n @SinceKotlin("1.1")\n public expect fun BooleanArray.contentHashCode(): Int\n\n **\n * Returns a hash code based on the contents of this array as if it is [List].\n * \n @SinceKotlin("1.1")\n public expect fun CharArray.contentHashCode(): Int\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("1.1")\n public expect fun <T> Array<out T>.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("1.1")\n public expect fun ByteArray.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("1.1")\n public expect fun ShortArray.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("1.1")\n public expect fun IntArray.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("1.1")\n public expect fun LongArray.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("1.1")\n public expect fun 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("1.1")\n public 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("1.1")\n public 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("1.1")\n public 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 * @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 * @return the [destination] array.\n * \n @SinceKotlin("1.3")\n public 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 * @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 * @return the [destination] array.\n * \n @SinceKotlin("1.3")\n public 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.

```

    @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.

```

`ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray`

Copies this array or its subrange into the [destination] array and returns that array. 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.

```

`IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray`

Copies this array or its subrange into the [destination] array and returns that array. 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.

```

`LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray`

Copies this array or its subrange into the [destination] array and returns that array. 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.

```

`FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray`

Copies this array or its subrange into the [destination] array and returns that array. 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`. \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 public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray \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 public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray \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 public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf

* \n @Suppress("NO_ACTUAL_FOR_EXPECT") \n public expect fun <T> Array<T>.copyOf(): Array<T> \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun ByteArray.copyOfOf(): ByteArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun ShortArray.copyOfOf(): ShortArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun IntArray.copyOfOf(): IntArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun LongArray.copyOfOf(): LongArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun FloatArray.copyOfOf(): FloatArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun DoubleArray.copyOfOf(): DoubleArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun BooleanArray.copyOfOf(): BooleanArray \n * \n * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf \n * \n public expect fun CharArray.copyOfOf(): CharArray \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.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`ByteArray.copyOf(newSize: Int): ByteArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with zero values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`ShortArray.copyOf(newSize: Int): ShortArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with zero values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`IntArray.copyOf(newSize: Int): IntArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with zero values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`LongArray.copyOf(newSize: Int): LongArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with zero values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`FloatArray.copyOf(newSize: Int): FloatArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with zero values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`DoubleArray.copyOf(newSize: Int): DoubleArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with `false` values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`BooleanArray.copyOf(newSize: Int): BooleanArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- 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.

`@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
`public expect fun`
`CharArray.copyOf(newSize: Int): CharArray`
Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with `null` values if necessary.
- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.

`@sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf`
`public expect fun`
`<T> Array<T>.copyOf(newSize: Int): Array<T>`
Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n

*^{@Suppress("NO_ACTUAL_FOR_EXPECT")}public expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public expect fun}

ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public expect fun}

ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public expect fun}

IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public 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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public 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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public 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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public 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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *^{public 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 *^{@SinceKotlin("1.3")}public 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 *^{@SinceKotlin("1.3")}public 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 *^{@SinceKotlin("1.3")}public 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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")\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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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")\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 * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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")\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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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")\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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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")\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
```

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*\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
```

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* 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 !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@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 */\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 */\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
*/\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 */\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 */\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 */\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 */\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 */\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@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements:

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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 */\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 */\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 */\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 */\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 */\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\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 fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/**\n * Sorts the array in-place.\n */\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun IntArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n */\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n */\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n */\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ShortArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n */\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n */\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n */\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun

CharArray.sort(): Unit\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 expect fun <T> Comparable<T>> Array<out T>.sort(): Unit\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 expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n */\npublic fun Array<out Long>.toLongArray(): LongArray {\n return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a `*typed*` object array containing all of the elements of this primitive array.\n */\npublic expect fun CharArray.toTypedArray(): Array<Char>\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 <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/**\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> 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/**\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


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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>
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/**\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>
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

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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
*\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

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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,

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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

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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
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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
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[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> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> 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
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[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> CharArray.associateBy(keySelector: (Char) -> K, valueTransform:
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(Char) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
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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 array\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
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```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out 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 applied to
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each element of the given array\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.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> 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 applied to each element of the given array\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
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```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K, M : MutableMap<in K,
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in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> 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 applied to
each element of the given array\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.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M :
MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> 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 applied to each element of the given array\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.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M :
MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> 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 applied to each element of the given array\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.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline
fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> 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 applied to each element of the given array\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.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline
fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> 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 applied to each element of the given array\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.Arrays.Transformations.associateArrayOfPrimitivesByTo\n
*/\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> 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 applied to each element of the given array\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.Arrays.Transformations.associateArrayOfPrimitivesByTo\n
*/\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.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
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 <T, K, V, M : MutableMap<in K, in V>> Array<out 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
* where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform]

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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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> 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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> 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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> 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 * \n public 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 * \n public 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 * \n public 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 * \n public 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 *
\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
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>> 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 */\npublic 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 */\npublic
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 *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic 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
*/\npublic 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.

* If any of two pairs would have the same key the last one gets added to the map.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array.

* If any of two pairs would have the same key the last one gets added to the map.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo
public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Appends all elements to the given [destination] collection.

```

public fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

```

Returns a [HashSet] of all elements.

```

public fun <T> Array<out T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(mapCapacity(size)))
}

```

Returns a [HashSet] of all elements.

```

public fun ByteArray.toHashSet(): HashSet<Byte> {
    return toCollection(HashSet<Byte>(mapCapacity(size)))
}

```

Returns a [HashSet] of all elements.

```

public fun ShortArray.toHashSet(): HashSet<Short> {
    return toCollection(HashSet<Short>(mapCapacity(size)))
}

```

Returns a [HashSet] of all elements.

```

public fun IntArray.toHashSet(): HashSet<Int> {
    return toCollection(HashSet<Int>(mapCapacity(size)))
}

```

Returns a [HashSet] of all elements.

```

public fun LongArray.toHashSet(): HashSet<Long> {
    return toCollection(HashSet<Long>(mapCapacity(size)))
}

```

Returns a [HashSet] of all elements.

```

public fun FloatArray.toHashSet(): HashSet<Float> {
    return toCollection(HashSet<Float>(mapCapacity(size)))
}

```

Returns a [HashSet] of all elements.

```

public fun DoubleArray.toHashSet(): HashSet<Double> {
    return toCollection(HashSet<Double>(mapCapacity(size)))
}

```

Returns a [HashSet] of all elements.

```

public fun BooleanArray.toHashSet():

```



```

HashSet<Boolean> {\n  return toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a
[HashSet] of all elements.\n */\npublic fun CharArray.toHashSet(): HashSet<Char> {\n  return
toCollection(HashSet<Char>(mapCapacity(size)))\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 [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
[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
[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 [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 [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 [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 [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 [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 [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 *
The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toSet():
Set<Byte> {\n  return when (size)
{\n    0 -> emptySet()\n    1 -> setOf(this[0])\n    else ->
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n  }\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 ShortArray.toSet():
Set<Short> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n    }\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 IntArray.toSet():
Set<Int> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n    }\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 LongArray.toSet():
Set<Long> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n    }\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 FloatArray.toSet():
Set<Float> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n    }\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 DoubleArray.toSet():
Set<Double> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n    }\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
BooleanArray.toSet():
Set<Boolean> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n    }\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 CharArray.toSet():
Set<Char> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Char>(mapCapacity(size)))\n    }\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 <T, R> Array<out
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 array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> 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> ShortArray.flatMap(transform:
(Short) -> 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>
IntArray.flatMap(transform: (Int) -> 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>
LongArray.flatMap(transform: (Long) -> 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> FloatArray.flatMap(transform:
(Float) -> 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>
DoubleArray.flatMap(transform: (Double) -> 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>
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 * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic 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}\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 */\npublic 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}\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 */\npublic 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}\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 */\npublic 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}\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 */\npublic 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}\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 */\npublic 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}\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 */\npublic 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}\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 */\npublic 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}\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 */\npublic 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}\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 <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<T>>(), 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>
```

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.groupByKeyAndValues\n * \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 * \n\npublic

inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> 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 * \n\npublic inline fun <K, V>

ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> 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 * \n\npublic inline fun <K, V>

IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> 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

@sample samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n\npublic inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> 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 * \n\npublic inline fun <K, V>

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> 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 * \n\npublic inline fun <K, V>

DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> 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 by the key returned by the given [keySelector] function applied to the element and returns a map where each group key is associated with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the original array.

```

@sample
samples.collections.Collections.Transformations.groupByKeyAndValues
public inline fun <K, V>
BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}
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 returns a map where each group key is associated with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the original array.
@sample
samples.collections.Collections.Transformations.groupByKeyAndValues
public inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>>
{
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M,
keySelector: (T) -> K): M {
for (element in this) {
val key = keySelector(element)
val list = destination.getOrPut(key) { ArrayList<T>() }
list.add(element)
}
return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K, M : MutableMap<in K,
MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {
for (element in this) {
val key = keySelector(element)
val list = destination.getOrPut(key) { ArrayList<Byte>() }
list.add(element)
}
return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K, M : MutableMap<in K,
MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {
for (element in this) {
val key = keySelector(element)
val list = destination.getOrPut(key) { ArrayList<Short>() }
list.add(element)
}
return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K, M : MutableMap<in K,
MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {
for (element in this) {
val key = keySelector(element)
val list = destination.getOrPut(key) { ArrayList<Int>() }
list.add(element)
}
return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupBy
public inline fun <K, M : MutableMap<in K,
MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {
for (element in this) {
val key = keySelector(element)
val list = destination.getOrPut(key) { ArrayList<Long>() }
list.add(element)
}
return destination
}
Groups elements of the original array by the key returned by the given [keySelector] function 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, 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 */\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 */\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 */\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 */\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 */\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 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>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K, valueTransform: (Int) -> 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>>> 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


```

*\n@SinceKotlin("1.1")\npublic inline fun <T, K> Array<out T>.groupBy(crossinline keySelector: (T) -> K):
Grouping<T, K> {\n    return object : Grouping<T, K> {\n        override fun sourceIterator(): Iterator<T> =
this@groupBy.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 array.\n * \n * @sample samples.collections.Collections.Transformations.map\n *\npublic inline fun
<T, R> Array<out T>.map(transform: (T) -> 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> ByteArray.map(transform: (Byte) -> 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> ShortArray.map(transform: (Short) -> 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> IntArray.map(transform: (Int) -> 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
* \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

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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>

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 * @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 * @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 * @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: (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 for<Indexed> { 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++,

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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 */\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 */\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

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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 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 * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.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 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 * 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 * 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 */\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 * 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 */\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 * 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 */\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 */\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 */\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 * 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 */\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 * 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 */\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 * 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 */\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 * 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].`

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\n * \n public infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {
\n   val set = this.toMutableSet()
\n   set.retainAll(other)
\n   return set
\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 * \n public infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {
\n   val set = this.toMutableSet()
\n   set.retainAll(other)
\n   return set
\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 * \n public infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {
\n   val set = this.toMutableSet()
\n   set.retainAll(other)
\n   return set
\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 * \n public infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {
\n   val set = this.toMutableSet()
\n   set.retainAll(other)
\n   return set
\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 * \n public infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {
\n   val set = this.toMutableSet()
\n   set.retainAll(other)
\n   return set
\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 * \n public infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {
\n   val set = this.toMutableSet()
\n   set.retainAll(other)
\n   return set
\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 public 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 * 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 public infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {
\n   val set = this.toMutableSet()
\n   set.removeAll(other)
\n   return set
\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 public infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {
\n   val set = this.toMutableSet()
\n   set.removeAll(other)
\n   return set
\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 public infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {
\n   val set = this.toMutableSet()
\n   set.removeAll(other)
\n   return set
\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 public infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {
\n   val set = this.toMutableSet()
\n   set.removeAll(other)
\n   return set
\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 public infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {
\n   val set = this.toMutableSet()
\n   set.removeAll(other)
\n   return set
\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 public infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {
\n   val set

```

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= 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 */\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 */\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 mutable set containing all distinct elements from the
given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
<T> Array<out T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>(mapCapacity(size))\n for
(item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from
the given array.\n * \n * The returned set preserves the element iteration
order of the original array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n val set =
LinkedHashSet<Byte>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a
mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element
iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n val set =
LinkedHashSet<Short>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a
mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element
iteration order of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n val set =
LinkedHashSet<Int>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a
mutable set containing all distinct elements from the given array.\n * \n
* The returned set preserves the element iteration order of the original array.\n */\npublic fun
LongArray.toMutableSet(): MutableSet<Long> {\n val set = LinkedHashSet<Long>(mapCapacity(size))\n for
(item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from
the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
FloatArray.toMutableSet(): MutableSet<Float> {\n val set = LinkedHashSet<Float>(mapCapacity(size))\n for
(item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from
the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
DoubleArray.toMutableSet(): MutableSet<Double> {\n val set = LinkedHashSet<Double>(mapCapacity(size))\n for
(item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing
all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n val set =
LinkedHashSet<Boolean>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a
mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n
val set = LinkedHashSet<Char>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\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 array.\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> Array<out T>.union(other:
Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\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 array.\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 ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n val set =
this.toMutableSet()\n set.addAll(other)\n return set\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 array.\n * Those
elements of the [other] collection that are unique are iterated

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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 ShortArray.union(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\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 array.\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 IntArray.union(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\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 array.\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 LongArray.union(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\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 array.\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 FloatArray.union(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\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 array.\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 DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\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 array.\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 BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\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 array.\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 CharArray.union(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\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> Array<out T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean):

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Boolean { \n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if
all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*\n\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean { \n  for (element in this) if
(!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n *\n\npublic inline fun
BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean { \n  for (element in this) if (!predicate(element))
return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.all\n *\n\npublic inline fun
CharArray.all(predicate: (Char) ->
Boolean): Boolean { \n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n *
Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n\npublic fun <T> Array<out T>.any(): Boolean { \n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has
at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n *\n\npublic fun
ByteArray.any(): Boolean { \n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n
*\n * \n * @sample samples.collections.Collections.Aggregates.any\n *\n\npublic fun ShortArray.any(): Boolean { \n
return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *\n\npublic fun IntArray.any(): Boolean { \n
return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *\n\npublic fun LongArray.any(): Boolean { \n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *\n\npublic fun FloatArray.any(): Boolean { \n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *\n\npublic fun DoubleArray.any(): Boolean { \n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n
*\n\npublic fun CharArray.any(): Boolean { \n  return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element
matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n\npublic inline fun <T> Array<out T>.any(predicate: (T) -> 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 *\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 * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *\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 *\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 *\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 *\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 * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *\n\npublic inline fun
DoubleArray.any(predicate: (Double) -> Boolean): Boolean { \n  for (element in this) if (predicate(element)) return

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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@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@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@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@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@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@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@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@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@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 */\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 */\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 */\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 */\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 */\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 [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 to current accumulator
value and each element.\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 to current accumulator value and each element.\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

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starting with [initial] value and applying [operation] from left to right to current accumulator value and each
element.\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
to current accumulator value and each element.\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 to current accumulator value and each element.\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 to current accumulator value and each
element.\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 to current accumulator value and each element.\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 to current accumulator value and each
element.\n *^\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> 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
to current accumulator value and each element.\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 * @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 * @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 * @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 * @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 * @param [operation]

```

function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> LongArray.foldIndexed(initial: R, operation:
(index: Int, acc: R, Long) -> 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.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> 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.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> 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.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> 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.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

public inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> 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 right to left to each element and current accumulator value.

```

public inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> DoubleArray.foldRight(initial: R,
operation: (Double, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

```

public inline fun <R> CharArray.foldRight(initial: R,
operation: (Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

public inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index:
Int, T, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> IntArray.foldRightIndexed(initial: R, operation:
(index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> FloatArray.foldRightIndexed(initial: R,

```

```

operation: (index: Int, Float, acc: R) -> R: R {
  var index = lastIndex
  var accumulator = initial
  while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
  }
  return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left * to each element with its index in the original array and current accumulator value. * @param [operation] function that takes the index of an element, the element itself * and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> DoubleArray.foldRightIndexed(initial:
R, operation: (index: Int, Double, acc: R) -> R): R {
  var index = lastIndex
  var accumulator = initial
  while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
  }
  return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left * to each element with its index in the original array and current accumulator value. * @param [operation] function that takes the index of an element, the element itself * and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index:
Int, Boolean, acc: R) -> R): R {
  var index = lastIndex
  var accumulator = initial
  while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
  }
  return accumulator
}

```

* Accumulates value starting with [initial] value and applying [operation] from right to left * to each element with its index in the original array and current accumulator value. * @param [operation] function that takes the index of an element, the element itself * and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
  var index = lastIndex
  var accumulator = initial
  while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
  }
  return accumulator
}

```

* Performs the given [action] on each element. * @param [action] function that takes the index of an element, the element itself * and current accumulator value, and calculates the next accumulator value.

```

public inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {
  for (element in this)
    action(element)
}

```

* Performs the given [action] on each element.

```

public inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {
  for (element in this)
    action(element)
}

```

* Performs the given [action] on each element.

```

public inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {
  for (element in this)
    action(element)
}

```

* Performs the given [action] on each element.

```

public inline fun IntArray.forEach(action: (Int) -> Unit): Unit {
  for (element in this)
    action(element)
}

```

* Performs the given [action] on each element.

```

public inline fun LongArray.forEach(action: (Long) -> Unit): Unit {
  for (element in this)
    action(element)
}

```

* Performs the given [action] on each element.

```

public inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {
  for (element in this)
    action(element)
}

```

* Performs the given [action] on each element.

```

public inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {
  for (element in this)
    action(element)
}

```

* Performs the given [action] on each element.

```

public inline fun BooleanArray.forEach(action: (Boolean) -> 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 desired action on the element.

```

public inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> 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 desired action on the element.

```

public inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> 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 desired action on the element.

```

public inline fun ShortArray.forEachIndexed(action: (index: Int, Short) ->
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\n * and performs the desired 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 desired 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 desired 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 desired 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 desired 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 desired 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/**\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("1.1")\npublic
fun Array<out Double>.max(): Double? {\n    if (isEmpty()) return null\n    var max = this[0]\n    if (max.isNaN())
return max\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN()) return e\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("1.1")\npublic fun Array<out Float>.max(): Float? {\n    if
(isEmpty()) return null\n    var max = this[0]\n    if (max.isNaN()) return max\n    for (i in 1..lastIndex) {\n        val e
= this[i]\n        if (e.isNaN()) return e\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 */\npublic fun <T : Comparable<T>> Array<out T>.max(): 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 */\npublic fun
ByteArray.max(): 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 */\npublic fun ShortArray.max(): 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 */\npublic fun IntArray.max(): 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 */\npublic fun LongArray.max():
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 */\npublic fun FloatArray.max(): Float? {\n    if (isEmpty()) return null\n    var max =
this[0]\n    if (max.isNaN()) return max\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN()) return
e\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 */\npublic fun DoubleArray.max(): Double? {\n    if
(isEmpty()) return null\n    var max = this[0]\n    if (max.isNaN()) return max\n    for (i in 1..lastIndex) {\n        val e
= this[i]\n        if (e.isNaN()) return e\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 *^npublic fun CharArray.max(): Char? {\n  if (isEmpty()) return null\n  var\n  max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (max < e) max = e\n  }\n  return\n  max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no\n elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n *^npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n  if (isEmpty()) return null\n  var maxElem =\n  this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue =\n  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/**\n * Returns the first\n element yielding the largest value of the given function or `null`\n if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n *^npublic inline\n fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n  if (isEmpty()) return null\n  var\n  maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue =\n  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/**\n * Returns the first\n element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxBy\n *^npublic inline fun <R : Comparable<R>>\n ShortArray.maxBy(selector: (Short) -> R): Short? {\n  if (isEmpty()) return null\n  var maxElem = this[0]\n  val\n  lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue\n  = selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue <\n v) {\n      maxElem = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the first\n element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxBy\n *^npublic inline fun <R : Comparable<R>>\n IntArray.maxBy(selector: (Int) -> R): Int? {\n  if (isEmpty()) return null\n  var maxElem = this[0]\n  val\n  lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue = selector(maxElem)\n  for (i\n 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\n of the given function or `null` if there are no elements.\n * \n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n *^npublic inline fun <R : Comparable<R>>\n LongArray.maxBy(selector: (Long) -> R): Long? {\n  if (isEmpty()) return null\n  var maxElem = this[0]\n  val\n  lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue = selector(maxElem)\n  for (i\n 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\n of the given function or `null` if there are no elements.\n * \n * \n * @sample\n samples.collections.Collections.Aggregates.maxBy\n *^npublic inline fun <R : Comparable<R>>\n FloatArray.maxBy(selector: (Float) -> R): Float? {\n  if (isEmpty()) return null\n  var maxElem = this[0]\n  val\n  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\n = e\n      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the first element yielding the\n largest value of the given function or `null` if there are no elements.\n * \n * \n * @sample\n samples.collections.Collections.Aggregates.maxBy\n *^npublic inline fun <R : Comparable<R>>\n DoubleArray.maxBy(selector: (Double) -> R): Double? {\n  if (isEmpty()) return null\n  var maxElem = this[0]\n  val\n  lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue = selector(maxElem)\n  for (i\n 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\n value of the given function or `null` if there are no elements.\n * \n * \n * @sample\n samples.collections.Collections.Aggregates.maxBy\n *^npublic inline fun <R : Comparable<R>>\n BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n  if (isEmpty()) return null\n  var maxElem =
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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.maxBy\n */\npublic inline fun <R : Comparable<R>>
CharArray.maxBy(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 first element
having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T>
Array<out T>.maxWith(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 */\npublic fun ByteArray.maxWith(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 */\npublic fun ShortArray.maxWith(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 */\npublic fun IntArray.maxWith(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 */\npublic fun LongArray.maxWith(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 */\npublic fun FloatArray.maxWith(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 */\npublic fun DoubleArray.maxWith(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 */\npublic fun BooleanArray.maxWith(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 */\npublic fun CharArray.maxWith(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/**\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("1.1")\npublic fun Array<out Double>.min(): Double? {\n    if (isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN())
return min\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN()) return e\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("1.1")\npublic fun Array<out Float>.min(): Float? {\n    if
(isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n       
val e =

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this[i]\n    if (e.isNaN()) return e\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 */\npublic fun <T : Comparable<T>> Array<out T>.min(): 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 */\npublic fun
ByteArray.min(): 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 */\npublic fun ShortArray.min(): 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 */\npublic fun IntArray.min(): 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 */\npublic fun LongArray.min():
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 */\npublic fun FloatArray.min(): Float? {\n    if (isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN())
return e\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 */\npublic fun DoubleArray.min(): Double?
{\n    if (isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n        val
e = this[i]\n        if (e.isNaN()) return e\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 */\npublic fun CharArray.min(): 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/**\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.minBy\n */\npublic inline fun <T, R :
Comparable<R>> Array<out T>.minBy(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.minBy\n */\npublic inline fun <R : Comparable<R>>
ByteArray.minBy(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.minBy\n */\npublic inline fun <R : Comparable<R>>
ShortArray.minBy(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
of the given function or `null` if

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there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n * \npublic inline fun
<R : Comparable<R>> LongArray.minBy(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.minBy\n * \npublic inline fun <R : Comparable<R>>
FloatArray.minBy(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.minBy\n * \npublic inline fun <R : Comparable<R>>
DoubleArray.minBy(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.minBy\n * \npublic inline fun <R :
Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\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.minBy\n * \npublic inline fun <R : Comparable<R>>
CharArray.minBy(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 first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n * \npublic fun <T>
Array<out T>.minWith(comparator: Comparator<in T>): T? {\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 * \npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\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 * \npublic fun ShortArray.minWith(comparator: Comparator<in
Short>): Short? {\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 *
\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\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 * \npublic fun LongArray.minWith(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

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*^public fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

* Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.

*^public fun DoubleArray.minWith(comparator: Comparator<in
Double>): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e =
this[i]
        if (comparator.compare(min,
e) > 0) min = e
    }
    return min
}

* Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.

*^public fun BooleanArray.minWith(comparator:
Comparator<in Boolean>): Boolean? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex)
    {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

* Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no
elements.

*^public fun CharArray.minWith(comparator: Comparator<in Char>): Char? {
    if (isEmpty())
return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min,
e) > 0) min = e
    }
    return min
}

* Returns `true` if the array has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun <T> Array<out T>.none(): Boolean {
    return isEmpty()
}

* Returns `true` if the array
has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun
ByteArray.none(): Boolean {
    return isEmpty()
}

* Returns `true` if the array has no elements.

* @sample
@sample
samples.collections.Collections.Aggregates.none

*^public fun ShortArray.none(): Boolean {
    return
isEmpty()
}

* Returns `true` if the array has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun IntArray.none(): Boolean {
    return
isEmpty()
}

* Returns `true` if the array has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun LongArray.none(): Boolean {
    return
isEmpty()
}

* Returns `true` if the array has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun FloatArray.none():
Boolean {
    return isEmpty()
}

* Returns `true` if the array has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun DoubleArray.none(): Boolean {
    return
isEmpty()
}

* Returns `true` if the array has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun BooleanArray.none(): Boolean {
    return
isEmpty()
}

* Returns `true` if the array has no elements.

* @sample
samples.collections.Collections.Aggregates.none

*^public fun CharArray.none(): Boolean {
    return
isEmpty()
}

* Returns `true` if no elements match the given [predicate].

* @sample
samples.collections.Collections.Aggregates.noneWithPredicate

*^public inline fun <T> Array<out
T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

* Returns `true` if no elements match the given [predicate].

* @sample
samples.collections.Collections.Aggregates.noneWithPredicate

*^public inline fun
ByteArray.none(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return
false
    return true
}

* Returns `true` if no elements match the given [predicate].

* @sample
samples.collections.Collections.Aggregates.noneWithPredicate

*^public inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

* Returns `true` if no elements match the given [predicate].

* @sample
samples.collections.Collections.Aggregates.noneWithPredicate

*^public inline fun IntArray.none(predicate: (Int)
-> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

* Returns `true` if no elements match the given [predicate].

* @sample
samples.collections.Collections.Aggregates.noneWithPredicate

*^public inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if
(predicate(element)) return false
    return true
}

* Returns `true` if no elements match the given
[predicate].

* @sample
samples.collections.Collections.Aggregates.noneWithPredicate

*^public inline fun

```

```

FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Returns `true` if no elements match the given [predicate].

@sample
samples.collections.Collections.Aggregates.noneWithPredicate

public inline fun CharArray.reduce(operation: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

@sample
samples.collections.Collections.Aggregates.reduce

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.

@sample
samples.collections.Collections.Aggregates.reduce

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.

@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.

@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.

@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.

@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.

@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.

@sample
samples.collections.Collections.Aggregates.reduce

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

```

@sample samples.collections.Collections.Aggregates.reduce
public inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {
    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.

```

@sample samples.collections.Collections.Aggregates.reduce
public inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {
    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.

```

@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
public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, 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(index, 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.

```

@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
public inline fun ByteArray.reduceIndexed(operation: (index: Int, 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(index, 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.

```

@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
public inline fun ShortArray.reduceIndexed(operation: (index: Int, 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(index, 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.

```

@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
public inline fun IntArray.reduceIndexed(operation: (index: Int, 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(index, 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.

```

@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
public inline fun LongArray.reduceIndexed(operation: (index: Int, 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(index, accumulator, this[index])
    }
    return accumulator
}

```

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 * @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.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 * @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.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 * @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.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 * @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.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 to current accumulator value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 to current accumulator value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 to current accumulator value and each element.
Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 to current accumulator

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value and each element. Returns null if the array is empty.

```

\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 to current accumulator value and each element. Returns null
if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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] from left to right to current accumulator
value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun FloatArray.reduceOrNull(operation: (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(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.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun DoubleArray.reduceOrNull(operation: (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(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.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun BooleanArray.reduceOrNull(operation:
(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(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.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun CharArray.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 last element and applying [operation] from right to left to each element and current accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun <S, T : S>
Array<out T>.reduceRight(operation: (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(get(index--), accumulator)\n }\n return accumulator\n}\n\n**\n *
Accumulates value starting with last element and applying [operation] from right to left to each element and current
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun ByteArray.reduceRight(operation: (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(get(index--), accumulator)\n
}\n return accumulator\n}\n\n**\n * Accumulates value starting with last element and applying [operation] from

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right to left to each element and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun ShortArray.reduceRight(operation:
(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(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates
value starting with last element and applying [operation] from right to left to each element and current accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun
IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\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 last element and applying [operation] from right to left to each element and current
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline
fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\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 last element and applying [operation] from right to left
to each element and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun FloatArray.reduceRight(operation:
(Float, acc: Float) -> Float): Float {\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 last element and applying [operation] from right to left to each element and current
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline
fun DoubleArray.reduceRight(operation:
(Double, acc: Double) -> Double): Double {\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 last element and applying [operation] from right to left to each element and current
accumulator value.\n * \n * @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 last element and applying [operation]
from right to left to each element and current 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 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 * @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 *
@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 last element and applying [operation] from right to left\n

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* to each element with its index in the original array and current accumulator value.\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 * @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 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 * @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 * @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 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 * @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 * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic
inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\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 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 * @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 * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\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 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 * @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 * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic
inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\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 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 * @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 * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
DoubleArray.reduceRightIndexed(operation:
(index: Int, Double, acc: Double) -> Double): Double {\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 last element and applying [operation] from right to left\n

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* to each element with its index in the original array and current accumulator value.\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 * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic
inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with 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 * @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 * @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("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 last element and applying [operation]
from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 last element and applying
[operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n *
\n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 last element and applying [operation] from right
to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 last element and applying [operation] from
right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun FloatArray.reduceRightOrNull(operation:

```

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(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 last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 last element and applying [operation] from right to left to each element and current accumulator value.
Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 last element and applying [operation]
from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <T, R> Array<out T>.scan(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.scan(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.scan(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) }
var accumulator = initial
for (element in this) {
    accumulator = operation(accumulator, element)
    result.add(accumulator)
}
return result

```

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("1.3") \n @ExperimentalStdlibApi \n @kotlin.internal.InlineOnly \n public inline fun <R>
IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

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("1.3") \n @ExperimentalStdlibApi \n @kotlin.internal.InlineOnly \n public inline fun <R>
LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

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("1.3") \n @ExperimentalStdlibApi \n @kotlin.internal.InlineOnly \n public inline fun <R>
FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

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("1.3") \n @ExperimentalStdlibApi \n @kotlin.internal.InlineOnly \n public inline fun <R>
DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.scan(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.scan(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <T, R> Array<out T>.scanIndexed(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 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.scanIndexed(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.scanIndexed(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`

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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

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.scanIndexed(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 }\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.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.scanIndexed(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.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.scanIndexed(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
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.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.scanIndexed(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.scan\n

```



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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.scanIndexed(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.scanIndexed(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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out
T>.scanReduce(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 * @param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.scanReduce(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 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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.scanReduce(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.scanReduce\n

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*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.scanReduce(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.scanReduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.scanReduce(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.scanReduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.scanReduce(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.scanReduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.scanReduce(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.scanReduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.scanReduce(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 * 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.scanReduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.scanReduce(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\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.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out T>.scanReduceIndexed(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 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.scanReduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.scanReduceIndexed(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\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.scanReduce\n
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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.scanReduceIndexed(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\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.scanReduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.scanReduceIndexed(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
```

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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 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.scanReduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.scanReduceIndexed(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.scanReduce\n
```

} return result} 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. @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.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
FloatArray.scanReduceIndexed(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    }
```

} return result} 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. @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.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
DoubleArray.scanReduceIndexed(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    }
```

} return result} 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. @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.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
BooleanArray.scanReduceIndexed(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    }
```

} return result} 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. @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.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun  
CharArray.scanReduceIndexed(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    }
```

} return result} Returns the sum of all values produced by [selector] function applied to each element in the array. @public inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int { var sum: Int = 0 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. @public inline fun

```
ByteArray.sumBy(selector: (Byte) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=  
selector(element)\n    }\n    return sum\n}\n\nShortArray.sumBy(selector: (Short) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}
```

the sum of all values produced by [selector] function applied to

```
each element in the array.\n *^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 *^npublic inline fun\nLongArray.sumBy(selector: (Long) -> 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 applied to each element in the array.\n *^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 *^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 *^npublic inline fun BooleanArray.sumBy(selector: (Boolean) -> 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 applied to each element in the array.\n *^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 *^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 *^npublic inline fun\ninline 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 *^npublic inline fun\nShortArray.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 *^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 *^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 [selector] function applied to each element in the array.\n *^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 *^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 *^npublic inline fun\ninline 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 *^npublic inline fun\nCharArray.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 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}\n\n@Suppress("UNCHECKED_CAST")\nreturn this as Array<T>\n}\n\n/**\n * Splits the original array into pair of
```

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lists, \n * where *first* list contains elements for which [predicate] yielded `true`, \n * while *second* list contains
elements for which [predicate] yielded `false`. \n */
public 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 * 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 */
public 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 * 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 */
public 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 * 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 */
public 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 * 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 */
public 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 * 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 */
public 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 * 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 */
public 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 * 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 */
public 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 * 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 */
public 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 * Returns a list of pairs built

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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 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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
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samples.collections.Iterables.Operations.zipIterableWithTransform\n * public inline fun <R, V>
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LongArray.zip(other: Iterable<R>, transform: (a: Long, 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
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DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n    val arraySize = size\n    val
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```
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other)
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{\n    if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n * Returns a list
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List<Pair<Byte, Byte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n * 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
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List<Pair<Int, Int>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n * 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
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}\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
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The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <V>
LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> 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\npublic inline fun <V>
FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> 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\npublic inline fun <V>
DoubleArray.zip(other: DoubleArray, transform:

```

```

(a: Double, b: Double) -> 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 */\npublic inline fun <V>\nBooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n  val size =\n  minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i],\n  other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the\n [other] array with the same index\n * using the provided\n [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 */\npublic inline fun <V>\nCharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> 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 * Appends the string from all the elements separated using [separator] and using the\n given [prefix] and [postfix] if supplied.\n *\n * If the collection could be huge, you can specify a non-negative value\n of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string\n (which defaults to "...").\n *\n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun\n<T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence\n = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence =\n "\", transform: ((T) -> CharSequence)? = null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this)\n  {\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)\n  buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the\n elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n *\n * If the collection\n could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will\n be appended, followed by the [truncated] string (which defaults to "...").\n *\n * @sample\n samples.collections.Collections.Transformations.joinTo\n */\npublic fun\n<A : Appendable>\nByteArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence\n = "\", 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)\n  buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the\n elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n *\n * If the collection\n could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will\n be appended, followed\n by the [truncated] string (which defaults to "...").\n *\n * @sample\n samples.collections.Collections.Transformations.joinTo\n */\npublic fun\n<A : Appendable>\nShortArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence\n = "\", 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)\n        buffer.append(transform(element))\n      else\n        buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit)\n  buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the\n elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n *\n * If\n the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will\n be appended, followed by the [truncated] string (which defaults to "...").\n *\n * @sample\n samples.collections.Collections.Transformations.joinTo\n */\npublic fun\n<A : Appendable> IntArray.joinTo(buffer:

```

```

A, separator: CharSequence = "|", prefix: CharSequence = "\", postfix: CharSequence = "\"", limit: Int = -1,
truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

* Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only
the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable>
LongArray.joinTo(buffer: A, separator: CharSequence = "|", prefix: CharSequence = "\", postfix: CharSequence
= "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

* Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.
* If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A :
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "|", prefix: CharSequence = "\", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? =
null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit <
0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

* Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
* If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will
be appended, followed by the [truncated] string (which defaults to "...").
@sample
samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable>
DoubleArray.joinTo(buffer: A, separator: CharSequence = "|", prefix: CharSequence = "\", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)?
= null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return
buffer
}

* Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.
* If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A :
Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence
= "|", prefix: CharSequence = "\", postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...",
transform: ((Boolean) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element
in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if
(transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

* 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>\nCharArray.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)\n        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,\n        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,\n        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,\n        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: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): String {\n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated,\n        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\n * \npublic fun LongArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\\\", postfix: CharSequence = \"\\\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> 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 FloatArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:

CharSequence = "...", transform: ((Float) -> 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 DoubleArray.joinToString(separator: CharSequence = ", ", prefix:

CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> 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

BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> 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 CharArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:

CharSequence = "...", transform: ((Char) -> 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 array returning its elements when being iterated.\n *^/npublic fun <T> Array<out T>.asIterable():

Iterable<T> {\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

ByteArray.asIterable(): Iterable<Byte> {\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 ShortArray.asIterable(): Iterable<Short> {\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 IntArray.asIterable(): Iterable<Int> {\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 LongArray.asIterable(): Iterable<Long> {\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 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

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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@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@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@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@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 if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n *\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Array<out
Float>.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@kotlin.jvm.JvmName("averageOfDouble")\npublic
fun Array<out Double>.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 /

```



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count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ByteArray.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 */\npublic fun ShortArray.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 */\npublic fun IntArray.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 */\npublic fun
LongArray.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 */\npublic fun FloatArray.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 */\npublic
fun DoubleArray.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 the sum of all elements in the array.\n
*/\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Array<out 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
array.\n */\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Array<out 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 array.\n */\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Array<out 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 array.\n */\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Array<out 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 array.\n */\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Array<out
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 array.\n
*/\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Array<out 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 * Returns the sum
of all elements in the array.\n */\npublic fun ByteArray.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 array.\n */\npublic fun
ShortArray.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 array.\n */\npublic fun IntArray.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 array.\n */\npublic fun LongArray.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 array.\n */\npublic
fun FloatArray.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 array.\n */\npublic fun DoubleArray.sum(): Double
{\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\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("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\nimport kotlin.random.*\n\n/**\n * Returns a
random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*/\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\n public 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 * \n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public 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 * \n @SinceKotlin("1.3")\n public 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 * \n @SinceKotlin("1.3")\n public 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 * \n @SinceKotlin("1.3")\n public fun CharRange.random(random: Random): Char {\n     try {\n         return random.nextInt(first.toInt(), last.toInt() + 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 * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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 * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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 * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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 * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public 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 * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public 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 * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public fun CharRange.randomOrNull(random: Random): Char? {\n     if (isEmpty())\n         return null\n     return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n }\n\n /**\n  * Returns `true` if this range contains the specified [element].\n  * \n * \n * Always returns `false` if the [element] is `null`.\n  * \n * \n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public 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 * \n * Always returns `false` if the [element] is `null`.\n  * \n * \n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public 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 * \n * Always returns `false` if the [element] is `null`.\n  * \n * \n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public 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")\n public 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")\n public 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@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@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\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@Deprecated("This
`contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be
removed.")\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@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\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@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\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@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\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@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\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@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@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\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 */\n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")\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@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@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
}

```

```

*@kotlin.jvm.JvmName("doubleRangeContains") public operator
fun ClosedRange<Double>.contains(value: Float): Boolean {
    return contains(value.toDouble())}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("longRangeContains") public operator
fun ClosedRange<Long>.contains(value: Int): Boolean {
    return contains(value.toLong())}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("byteRangeContains") public operator
fun ClosedRange<Byte>.contains(value: Int): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("shortRangeContains") public operator
fun ClosedRange<Short>.contains(value: Int): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }}
} Checks if the specified [value] belongs to this range.
*@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
*@kotlin.jvm.JvmName("doubleRangeContains") public operator
fun ClosedRange<Double>.contains(value: Int): Boolean {
    return contains(value.toDouble())}
} Checks if the specified [value] belongs to this range.
*@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
*@kotlin.jvm.JvmName("floatRangeContains") public operator
fun ClosedRange<Float>.contains(value: Int): Boolean {
    return contains(value.toFloat())}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("intRangeContains") public operator
fun ClosedRange<Int>.contains(value: Long): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("byteRangeContains") public operator
fun ClosedRange<Byte>.contains(value: Long): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("shortRangeContains") public operator
fun ClosedRange<Short>.contains(value: Long): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }}
} Checks if the specified [value] belongs to this range.
*@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
*@kotlin.jvm.JvmName("doubleRangeContains") public operator
fun ClosedRange<Double>.contains(value: Long): Boolean {
    return contains(value.toDouble())}
} Checks if the specified [value] belongs to this range.
*@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
*@kotlin.jvm.JvmName("floatRangeContains") public operator
fun ClosedRange<Float>.contains(value: Long): Boolean {
    return contains(value.toFloat())}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("intRangeContains") public operator
fun ClosedRange<Int>.contains(value: Short): Boolean {
    return contains(value.toInt())}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("longRangeContains") public operator
fun ClosedRange<Long>.contains(value: Short): Boolean {
    return contains(value.toLong())}
} Checks if the specified [value] belongs to this range.
*@kotlin.jvm.JvmName("byteRangeContains") public operator
fun ClosedRange<Byte>.contains(value: Short): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }}
} Checks if the specified [value] belongs to this range.
*@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
*@kotlin.jvm.JvmName("doubleRangeContains") public operator
fun ClosedRange<Double>.contains(value: Short): Boolean {
    return contains(value.toDouble())}
} Checks if the specified [value] belongs to this range.
*@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
*@kotlin.jvm.JvmName("floatRangeContains") public operator
fun ClosedRange<Float>.contains(value: Short): Boolean {
    return contains(value.toFloat())}
} Returns a

```



```

Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}

/**
 * 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.
 */
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -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.
 */
public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

/**
 * 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.
 */
public infix fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun IntProgression.reversed(): IntProgression {
    return IntProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun LongProgression.reversed(): LongProgression {
    return LongProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun CharProgression.reversed(): CharProgression {
    return CharProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun IntProgression.step(step: Int): IntProgression {
    checkStepIsPositive(step > 0, step)
    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun LongProgression.step(step: Long): LongProgression {
    checkStepIsPositive(step > 0, step)
    return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun CharProgression.step(step: Int): CharProgression {
    checkStepIsPositive(step > 0, step)
    return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

internal fun Int.toByteArrayOrNull(): Byte? {
    return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByteArray() else null
}

internal fun Long.toByteArrayOrNull(): Byte? {
    return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByteArray() else null
}

internal fun Short.toByteArrayOrNull(): Byte? {
    return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByteArray() else null
}

internal fun Double.toByteArrayOrNull(): Byte? {
    return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toByteArray() else null
}

internal fun Float.toByteArrayOrNull(): Byte? {
    return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toByteArray() else null
}

internal fun Long.toIntExactOrNull(): Int? {
    return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong()) this.toInt() else null
}

internal fun Double.toIntExactOrNull(): Int? {
    return if (this in Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null
}

internal fun Float.toIntExactOrNull(): Int? {
    return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null
}

internal fun Double.toLongExactOrNull(): Long? {
    return if (this in Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null
}

internal fun Float.toLongExactOrNull(): Long? {
    return if (this in Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null
}

internal fun Int.toShortExactOrNull(): Short? {
    return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt()) this.toShort() else null
}

internal fun Long.toShortExactOrNull(): Short? {
    return if (this in Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null
}

```

Double.toShortExactOrNull(): Short? {\n return if (this in
 Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toShort() else null\n}\n\ninternal fun
 Float.toShortExactOrNull(): Short? {\n return if (this in
 Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat())
 this.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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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\npublic 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\npublic
 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\npublic 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\npublic 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]

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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: 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 */\npublic
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.coerceAtLeastComparable\n */\npublic 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
than
or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic 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
*/\npublic 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 */\npublic 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 */\npublic 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 */\npublic 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 */\npublic 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 */\npublic 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
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

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{\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 * \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 IllegalArgumentException("\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 * \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
IllegalArgumentException("\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 * \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 IllegalArgumentException("\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 *
\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 Int.coerceIn(minimumValue: Int, maximumValue:
Int): Int {\n  if (minimumValue > maximumValue) throw IllegalArgumentException("\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)

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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.coerceIn\n
*/\npublic fun Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {\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.coerceIn\n
*/\npublic fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {\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.coerceInFloatingPointRange\n
*/\n@SinceKotlin("1.1")\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T
{\n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n
return when {\n // this < start equiv to this <= start && !(this >= start)\n range.lessThanOrEquals(this,
range.start) && !range.lessThanOrEquals(range.start, this) -> range.start\n // this > end equiv to this >= end &&
!(this <= end)\n range.lessThanOrEquals(range.endInclusive, this) && !range.lessThanOrEquals(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("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.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("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.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 2010-2019 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// Auto-generated file. DO NOT

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EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress(\\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\\")\n\n@
SinceKotlin(\\"1.3\\")\n\n@ExperimentalUnsignedTypes\n\npublic inline 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.toInt())\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.toInt())\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.toInt())\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.toInt())\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 times(other: UByte): UInt =
this.toUInt().times(other.toInt())\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.toInt())\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. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toInt())\n\n    /** Divides this value by
the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toInt())\n\n    /** Divides this value by the other value. */\n    @kotlin.internal.InlineOnly\n

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public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /** Calculates the remainder of dividing
this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte):
UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value.
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**
Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UByte = UByte(data.inc())\n /** Decrements this
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun dec():
UByte = UByte(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: UByte): UIntRange =
UIntRange(this.toUInt(), other.toUInt())\n\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\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\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\n /** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public
inline fun inv(): UByte = UByte(data.inv())\n\n /**\n * Converts this [UByte] value to
[Byte].\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 * 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 * The resulting `Short` value represents the same numerical value as this `UByte`.\n * The
least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\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 * The
resulting `Int` value represents the same numerical value as this `UByte`.\n * The
least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,\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 * The
resulting `Long` value represents the same numerical value as this `UByte`.\n * The least significant 8 bits
of the resulting `Long` value are the same as the bits of this `UByte` value,\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\n /** Returns this value. */\n @kotlin.internal.InlineOnly\n public inline fun
toUByte(): UByte = this\n /**\n * Converts this [UByte] value to [UShort].\n * The resulting `UShort`
value represents the same numerical value as this `UByte`.\n * The least significant 8 bits of the resulting
`UShort` value are the same as the bits of this `UByte`
value,\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 * The resulting `UInt` value represents the same numerical value as this `UByte`.\n * The
least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\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 * The
resulting `ULong` value represents the same numerical value as this `UByte`.\n * The least significant 8
bits of the resulting `ULong` value are

```

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the same as the bits of this `UByte` value,\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 /**\n * Converts this [UByte] value to [Float].\n */\n * The resulting `Float` value represents the same numerical\n value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =\n this.toInt().toFloat()\n /**\n * Converts this [UByte] value to [Double].\n */\n * The resulting `Double`\n value represents the same numerical value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline\n fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String =\n toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n */\n * If this value is positive, the resulting\n `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*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nByte.toUByte(): UByte = UByte(this)\n/**\n * Converts this [Short] value to [UByte].\n */\n * If this value is\n positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same\n numerical value as this `Short`.\n */\n * The resulting `UByte` value is represented by the least significant 8 bits of\n this `Short` value.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nShort.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n */\n * If this value is\n positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same\n numerical value as this `Int`.\n */\n * The resulting `UByte` value is represented by the least significant 8 bits of this\n `Int`\n value.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline\n fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n */\n * If this\n value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the\n same numerical value as this `Long`.\n */\n * The resulting `UByte` value is represented by the least significant 8\n bits of this `Long` value.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nLong.toUByte(): UByte = UByte(this.toByte())\n",*/\n * Copyright 2010-2019 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// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport\n kotlin.experimental.*\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic\n inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt>\n {\n\n companion object {\n\n /**\n * A constant holding the minimum value an instance of UInt can\n have.\n */\n public const val MIN_VALUE: UInt = UInt(0)\n\n /**\n * A constant holding the\n 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\n const val SIZE_BYTES: Int = 4\n\n /**\n * The number of bits used to represent an instance of UInt in a\n binary form.\n */\n public const val SIZE_BITS: Int = 32\n }\n\n /**\n * Compares this value with\n the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative\n number if it's less than other,\n * or a positive number if it's greater than other.\n */\n\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =\n 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,\n * or a\n positive number if it's greater than other.\n */\n\n @kotlin.internal.InlineOnly\n public inline operator fun\n compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the\n specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if\n it's less than other,\n * or a positive number if it's greater than other.\n */\n\n @kotlin.internal.InlineOnly\n @Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other:

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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,\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.toULong().compareTo(other)\n\n /** Adds the other value to this value.
*/\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.plus(other.toUInt())\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 /** 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 /** 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: UInt): UInt =
this.minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun 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: UInt): 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. */\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UInt): UInt = this.div(other.toUInt())\n /** Divides this value by the other
value. */\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. */\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: UInt): UInt
= uintDivide(this, other)\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UInt): UInt = this.rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value.
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\n
/** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments
this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UInt = UInt(data.inc())\n /**
Decrements this value. */\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 /** Shifts this value left by the [bitCount] number of bits. */\n @kotlin.internal.InlineOnly\n public
inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n /** Shifts this value right by the [bitCount]
number of bits, filling the leftmost bits with zeros. */\n @kotlin.internal.InlineOnly\n public inline infix fun
shr(bitCount: Int): UInt = UInt(data ushr bitCount)\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 /** 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 /**

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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 /** 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 * 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 * 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 *
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 * 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 * 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 /** Returns this value. */n @kotlin.internal.InlineOnly\n
public inline fun toUInt(): UInt = this\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,\n * whereas the most significant 32
bits are filled with zeros.\n */n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong =
ULong(data.toLong() and 0xFFFF_FFFF)\n /**\n * Converts this [UInt] value to [Float].\n *\n * The
resulting value is the closest `Float` to this `UInt` value.\n
* In case when this `UInt` value is exactly between two `Float`s,\n * the one with zero at least significant bit of
mantissa is selected.\n */n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
this.toDouble().toFloat()\n /**\n * Converts this [UInt] value to [Double].\n *\n * The resulting `Double`
value represents the same numerical value as this `UInt`.\n */n @kotlin.internal.InlineOnly\n public inline
fun toDouble(): Double = uintToDouble(data)\n\n public override fun toString(): String =
toLong().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UInt].\n *\n * If this value is positive, the resulting
`UInt` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting
`UInt` value are the same as the bits of this `Byte` value,\n * whereas the most significant 24 bits are filled with the
sign bit of this value.\n
*/n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Short] value to [UInt].\n *\n * If this value
is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\n *\n * The least
significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,\n * whereas the most
significant 16 bits are filled with the sign bit of this value.\n

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
Short.toInt(): 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.^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@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.^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@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`.^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@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`.^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
Double.toUInt(): UInt = doubleToUInt(this)^//^ * 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.^ ^// Auto-generated file. DO NOT EDIT!^package kotlin^import
kotlin.experimental.^@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")^@
SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public inline class UShort @PublishedApi internal
constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {^ companion object {^ //^
* A constant holding the minimum value an instance of UShort can have.^ // public const val
MIN_VALUE: UShort = UShort(0)^ // ^ * A constant holding
the maximum value an instance of UShort can have.^ // public const val MAX_VALUE: UShort =
UShort(-1)^ // ^ * The number of bytes used to represent an instance of UShort in a binary form.^
// public const val SIZE_BYTES: Int = 2^ // ^ * The number of bits used to represent an
instance of UShort in a binary form.^ // 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,^ * or a positive number if it's greater than other.^ //
@kotlin.internal.InlineOnly^ public inline operator fun compareTo(other: UByte): Int =
this.toInt().compareTo(other.toInt())^ // ^ * 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,^ * or a positive number if it's greater than other.^ //
@kotlin.internal.InlineOnly^ @Suppress("OVERRIDE_BY_INLINE")^ public override inline operator fun
compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())^ // ^ * 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,^ * or a positive number if it's greater than other.^ // @kotlin.internal.InlineOnly^
public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)^ // ^ * 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,^ * or a positive number if it's greater than other.^ //
@kotlin.internal.InlineOnly^ public inline operator fun compareTo(other:
ULong): Int = this.toULong().compareTo(other)^ // ^ * Adds the other value to this value.^ //
@kotlin.internal.InlineOnly^ public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())^ // ^ * Adds the other value to this value.^ // @kotlin.internal.InlineOnly^
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())^ // ^ * Adds the other value

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to this value. */n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\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 /** 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 /** 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 /** 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 /** 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 /** 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
/** 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. */n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())\n /** Divides this value by the other value. */n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by
the other value. */n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n /** Divides this value by the other value. */n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. */n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of
dividing this value by the other value. */n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UShort): UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other
value. */n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n /** Calculates the remainder of dividing this value by the other value. */n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /** Increments this value. */n @kotlin.internal.InlineOnly\n public inline
operator fun inc(): UShort = UShort(data.inc())\n /** Decrements this value. */n @kotlin.internal.InlineOnly\n
public inline operator fun dec(): UShort = UShort(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:
UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\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 /** 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
/** 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 /** 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 * 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 * Note
that the resulting `Byte` value may be negative.\n */n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data.toByte()\n /**\n * Converts this [UShort] value to [Short].\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 * The resulting `Short` value has the same binary

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representation as this `UShort` value.\n *
\n @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\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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Long.toUShort(): UShort = UShort(this.toShort())\n", "\n * Copyright 2010-2019 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\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\n/**\n * A range of values of
type `Char`.\n *\n\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1),
ClosedRange<Char> {\n    override val start: Char get() = first\n    override val endInclusive: Char get() = last\n\n    override fun contains(value: Char): Boolean = first <= value && value <= last\n\n    override fun isEmpty():
Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is CharRange && (isEmpty()
&& other.isEmpty()) ||\n        first == other.first && last == other.last\n\n    override fun hashCode(): Int =\n        if
(isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Char. */\n        public val EMPTY: CharRange =
CharRange(1.toChar(), 0.toChar())\n    }\n}\n\n/**\n * A range of values of type `Int`.\n *\n\npublic class
IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive,
1), ClosedRange<Int> {\n    override val start: Int get() = first\n    override val endInclusive: Int get() = last\n\n    override fun contains(value: Int): Boolean = first <= value && value <= last\n\n    override fun isEmpty(): Boolean
= first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is IntRange && (isEmpty() &&
other.isEmpty()) ||\n        first == other.first && last == other.last\n\n    override fun hashCode(): Int =\n        if
(isEmpty()) -1 else (31 * first + last)\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object
{\n        /** An empty range of values of type Int. */\n        public val EMPTY: IntRange = IntRange(1, 0)\n    }\n}\n\n/**\n * A range of values of type `Long`.\n *\n\npublic class LongRange(start: Long, endInclusive: Long) :
LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n    override val start: Long get() = first\n    override
val endInclusive: Long get() = last\n\n    override fun contains(value: Long): Boolean = first <= value && value <= last\n\n    override fun isEmpty(): Boolean = first
> last\n\n    override fun equals(other: Any?): Boolean =\n        other is LongRange && (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 ushr 32)) + (last xor (last ushr 32))).toInt()\n\n    override fun toString():
String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Long. */\n        public
val EMPTY: LongRange = LongRange(1, 0)\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
*\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\n@file:UseExperimental(
kotlin.experimental.ExperimentalTypeInference::class)\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\ninternal object EmptyIterator : ListIterator<Nothing> {\n    override fun hasNext(): Boolean = false\n    override fun hasPrevious(): Boolean = false\n    override fun
nextIndex(): Int = 0\n    override fun previousIndex(): Int = -1\n    override fun next(): Nothing = throw
NoSuchElementException()\n    override fun previous(): Nothing = throw
NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n    private const val serialVersionUID: Long = -7390468764508069838L\n\n    override fun equals(other: Any?):
Boolean = other is List<*> && other.isEmpty()\n\n    override fun hashCode(): Int = 1\n\n    override fun toString():
String = "[]"\n\n    override val size: Int get() = 0\n\n    override fun isEmpty(): Boolean = true\n\n    override fun
contains(element: Nothing): Boolean = false\n\n    override fun containsAll(elements: Collection<Nothing>): Boolean
= elements.isEmpty()\n\n    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Empty list doesn't contain element
at index $index.")\n\n    override fun indexOf(element: Nothing): Int = -1\n\n    override fun lastIndexOf(element:
Nothing): Int = -1\n\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n\n    override fun listIterator():
ListIterator<Nothing> = EmptyIterator\n\n    override fun listIterator(index: Int): ListIterator<Nothing> {\n        if
(index != 0) throw IndexOutOfBoundsException("Index: $index")\n        return EmptyIterator\n    }\n\n    override fun
subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n        if (fromIndex == 0 && toIndex == 0) return this\n        throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")\n    }\n\n    private fun

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readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> =  
ArrayAsCollection(this, isVarargs = false)\n\nprivate class ArrayAsCollection<T>(val  
values: Array<out T>, val 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.copyToArrayOfAny(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  
[init] function.\n * [init] function.\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 * @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 [init] function.\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 * @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 * 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 * @sample
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samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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
ArrayList<E>().apply(builderAction)\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 * 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 * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n * @throws IllegalArgumentException if the given [capacity] is negative.\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n checkBuilderCapacity(capacity)\n return
ArrayList<E>(capacity).apply(builderAction)\n}\n\n\n/**\n * Returns an [IntRange] of the valid indices for this
collection.\n * @sample samples.collections.Collections.Collections.indicesOfCollection\n
*\npublic val Collection<*>.indices: IntRange\n get() = 0..size - 1\n\n/**\n * Returns the index of the last item in
the list or -1 if the list is empty.\n * @sample samples.collections.Collections.Lists.lastIndexOfList\n
*\npublic
val <T> List<T>.lastIndex: Int\n get() = this.size - 1\n\n/**\n * Returns `true` if the collection is not empty.\n *
@sample samples.collections.Collections.Collections.collectionIsNotEmpty\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean =
!isEmpty()\n\n\n/**\n * Returns `true` if this nullable collection is either null or empty.\n * @sample
samples.collections.Collections.Collections.collectionOrNullEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty():
Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null ||
this.isEmpty()\n}\n\n\n/**\n * Returns this Collection
if it's not `null` and the empty list otherwise.\n * @sample
samples.collections.Collections.Collections.collectionOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\n\n\n/**\n * Returns this List if it's not `null` and
the empty list otherwise.\n * @sample samples.collections.Collections.Lists.listOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n
*\n * Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is
empty.\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\n if (isEmpty()) defaultValue() else this\n\n\n/**\n * Checks if all
elements in the specified collection are contained in this collection.\n
*\n * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type
`Collection<E>`.\n * @sample samples.collections.Collections.Collections.collectionContainsAll\n
*\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n\ninternal fun <T>
List<T>.optimizeReadOnlyList() = when (size) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else ->
this\n}\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 Comparable natural ordering of its elements,\n *
otherwise the result is undefined.\n * If the list contains multiple elements equal to the specified [element], there
is no guarantee which
one will be found.\n * `null` value is considered to be less than any non-null value.\n * @return the index of
the element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-

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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.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?): 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) { comparator.compare(selector(it), key)
}\n\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

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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  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)\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 * Checks that `from` and `to` are in\n * the range
of [0..size] and throws an appropriate exception, if they aren't.\n */\nprivate fun rangeCheck(size: Int, fromIndex:
Int, toIndex: Int) {\n  when {\n    fromIndex > toIndex -> throw IllegalArgumentException("\nfromIndex
($fromIndex) is greater than toIndex ($toIndex).")\n    fromIndex < 0 -> throw
IndexOutOfBoundsException("\nfromIndex ($fromIndex) is less than zero.")\n    toIndex > size -> throw
IndexOutOfBoundsException("\ntoIndex ($toIndex) is greater than size ($size).")\n  }\n}\n\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkIndexOverflow(index: Int):
Int\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkCountOverflow(count: Int):
Int\n\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun throwIndexOverflow() {\n  throw
ArithmeticException("Index overflow has happened.")\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal
fun throwCountOverflow() {\n  throw ArithmeticException("Count overflow has happened.")\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("MapsKt")\n@file:UseExperimental(kotlin
.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport
kotlin.contracts.*\n\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\n  private const val
serialVersionUID: Long = 8246714829545688274\n  override fun equals(other: Any?): Boolean = other is
Map<*, *> && other.isEmpty()\n  override fun hashCode(): Int = 0\n  override fun toString(): String = "{}"\n\n  override val size: Int get() = 0\n  override fun isEmpty(): Boolean = true\n\n  override fun containsKey(key:
Any?): Boolean = false\n  override fun containsValue(value:
Nothing): Boolean = false\n  override fun get(key: Any?): Nothing? = null\n  override val entries:
Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n  override val keys: Set<Any?> get() = EmptySet\n\n  override val values: Collection<Nothing> get() = EmptyList\n\n  private fun readResolve(): Any =
EmptyMap\n}\n\n/**\n * Returns an empty read-only map of specified type.\n */\n * The returned map is serializable
(JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\npublic fun <K, V>
emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)\n\n/**\n * Returns
a new read-only map with the specified contents, given as a list of pairs\n * where the first value is the key and the
second is the value.\n */\n * If multiple pairs have the same key, the resulting map will contain the value from the
last of those pairs.\n */\n * Entries of the map are iterated in the order they were specified.\n */\n * The returned map
is serializable
(JVM).\n */\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic fun <K, V>
mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n  if (pairs.size > 0)\n    pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\n\n/**\n * Returns an empty read-only
map.\n */\n * The returned map is serializable (JVM).\n * @sample
samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n */\n * The returned
map preserves the entry iteration order.\n */\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf():
MutableMap<K, V> = LinkedHashMap()\n\n/**\n * Returns a new [MutableMap] with the specified contents, given
as a list of pairs\n * where the first component is the key and the second is the value.\n */\n * If multiple pairs have
the

```

same key, the resulting map will contain the value from the last of those pairs.

`MutableMap` Entries of the map are iterated in the order they were specified.

`MutableMap` @sample

`MutableMap` samples.collections.Maps.Instantiation.mutableMapFromPairs

`MutableMap` @sample

`MutableMap` samples.collections.Maps.Instantiation.emptyMutableMap

`MutableMap` `public fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> =` `LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }`

`MutableMap` Returns an empty new `HashMap`.

`MutableMap` @sample

`MutableMap` samples.collections.Maps.Instantiation.emptyHashMap

`MutableMap` `@SinceKotlin("1.1")@kotlin.internal.InlineOnly` `public inline fun <K, V> hashMapOf(): HashMap<K, V> =` `HashMap<K, V>()`

`MutableMap` 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.

`MutableMap` @sample

`MutableMap` samples.collections.Maps.Instantiation.hashMapFromPairs

`MutableMap` `public fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> =` `HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }`

`MutableMap` Returns an empty new `LinkedHashMap`.

`MutableMap` `@SinceKotlin("1.1")@kotlin.internal.InlineOnly` `public inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> =` `LinkedHashMap<K, V>()`

`MutableMap` Returns a new `LinkedHashMap` with the specified contents, given as a list of pairs where the first component is the key and the second is the value.

`MutableMap` If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.

`MutableMap` Entries of the map are iterated in the order they were specified.

`MutableMap` @sample

`MutableMap` samples.collections.Maps.Instantiation.linkedMapFromPairs

`MutableMap` `public fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> =` `pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))`

`MutableMap` 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.

`MutableMap` The map passed as a receiver to the `builderAction` is valid only inside that function.

`MutableMap` Using it outside of the function produces an unspecified behavior.

`MutableMap` Entries of the map are iterated in the order they were added by the `builderAction`.

`MutableMap` @sample

`MutableMap` samples.collections.Builders.Maps.buildMapSample

`MutableMap` `@SinceKotlin("1.3")@ExperimentalStdlibApi@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 LinkedHashMap<K, V>().apply(builderAction)`

`MutableMap` 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.

`MutableMap` The map passed as a receiver to the `builderAction` is valid only inside that function.

`MutableMap` Using it outside of the function produces an unspecified behavior.

`MutableMap` `[capacity]` is used to hint the expected number of pairs added in the `builderAction`.

`MutableMap` Entries of the map are iterated in the order they were added by the `builderAction`.

`MutableMap` @throws `IllegalArgumentException` if the given `[capacity]` is negative.

`MutableMap` @sample

`MutableMap` samples.collections.Builders.Maps.buildMapSample

`MutableMap` `@SinceKotlin("1.3")@ExperimentalStdlibApi@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) }` `checkBuilderCapacity(capacity)` `return LinkedHashMap<K, V>(mapCapacity(capacity)).apply(builderAction)`

`MutableMap` Calculate the initial capacity of a map.

`MutableMap` `@PublishedApi` `internal expect fun mapCapacity(expectedSize: Int): Int`

`MutableMap` Checks a collection builder function capacity argument.

`MutableMap` `@SinceKotlin("1.3")@ExperimentalStdlibApi@PublishedApi` `internal expect fun checkBuilderCapacity(capacity: Int)`

`MutableMap` Returns `true` if this map is not empty.

`MutableMap` `@kotlin.internal.InlineOnly` `public inline fun <K, V> Map<out K, V>.isEmpty(): Boolean =` `!isEmpty()`

`MutableMap` Returns `true` if this nullable map is either null or empty.

`MutableMap` @sample

`MutableMap` samples.collections.Maps.Usage.mapIsNullOrEmpty

`MutableMap` `@SinceKotlin("1.3")@kotlin.internal.InlineOnly` `public inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {` `contract {` `returns(false) implies (this@isNullOrEmpty != null)` `}`


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return this == null || isEmpty()\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n
*\n * @sample samples.collections.Maps.Usage.mapOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n *
or the result of calling [defaultValue] function if the map is empty.\n */\n * @sample
samples.collections.Maps.Usage.mapIfEmpty\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun <M, R> M.isEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n    if (isEmpty())
defaultValue() else this\n\n/**\n * Checks if the map contains the given key.\n */\n * This method allows to use the
`x in map` syntax for checking whether an object is contained in the map.\n */\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
*/\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 */\n * Allows to
overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.\n
*/\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 */\n *
Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\n */\n *
@sample samples.collections.Maps.Usage.containsValue\n
*/\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K,
V>.containsValue(value: V): Boolean = this.containsValue(value)\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 * Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out 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 */\n * This method allows to use
destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n *     // do
something with the key and the value\n * }\n * ```\n */\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 */\n * This
method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key,
value) in map) {\n *     // do something with the key and the value\n * }\n * ```\n */\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 */\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 */\n * @sample
samples.collections.Maps.Usage.getOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K,
V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\n\ninternal inline fun <K, V>
Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {\n    val value = get(key)\n    if (value == null
&& !containsKey(key)) {\n        return defaultValue()\n    } else {\n        @Suppress("UNCHECKED_CAST")\n        return value as V\n    }\n}\n\n/**\n * Returns the value for the given [key] or throws an exception if there is no such key in the map.\n */\n * If the map was created by [withDefault], resorts to its `defaultValue` provider function\n * instead of throwing an
exception.\n */\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key

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and\n * no implicit default value was provided for that map.\n *
`public fun <K, V> Map<K, V>.getValue(key: K): V = getOrImplicitDefault(key)`\n * Returns the value for the given key. If the key is not found in the map, calls the [defaultValue] function,\n * puts its result into the map under the given key and returns it.\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n *
`@sample samples.collections.Maps.Usage.getOrPut`\n *
`public inline fun <K, V> MutableMap<K, V>.getOrPut(key: K, default: () -> V): V` {\n val value = get(key)\n return if (value == null) {\n val answer = default()\n put(key, answer)\n answer\n } else {\n value\n }\n}\n * Returns an [Iterator] over the entries in the [Map].\n *
`@sample samples.collections.Maps.Usage.forOverEntries`\n *
`@kotlin.internal.InlineOnly`\n *
`public inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()`\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n *
`@kotlin.jvm.JvmName("mutableIterator")`\n *
`@kotlin.internal.InlineOnly`\n *
`public inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()`\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 *
`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 * 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 * 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 *
`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 * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.\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 * 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 *
`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 * 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 *
`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 * 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 * The returned map preserves the entry iteration order of the original map.\n *
`@sample samples.collections.Maps.Transformations.mapValues`\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 * 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 * 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 * The returned map preserves the entry iteration order of the original map.\n *
`@sample samples.collections.Maps.Transformations.mapKeys`\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 * Returns a map containing all key-value pairs with keys matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n *
`@sample samples.collections.Maps.Filtering.filterKeys`\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 * Returns a map containing all key-value pairs with values matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n *

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@sample samples.collections.Maps.Filtering.filterValues\n */\npublic 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 */\npublic 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 */\npublic 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/**\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 * @public 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 * @public 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/**\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 * @public 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/**\n * Populates and returns the [destination] mutable map with key-value pairs
from the given array of pairs.\n */\n * @public 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/**\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 * @public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K,
V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs
from the given sequence of pairs.\n */\n * @public 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/**\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")\n */\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 * @SinceKotlin("1.1")\n */\npublic fun <K, V> Map<out K, V>.toMutableMap():

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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@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 * The [pair] is iterated in the end if it has a unique key.\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 * Those [pairs] with unique keys are iterated in the end in the order of [pairs]
collection.\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.\n * Those [pairs] with
unique keys are iterated in the end in the order of [pairs] array.\n *\npublic operator fun <K, V> Map<out K,
V>.plus(pairs: Array<out 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 sequence of key-value [pairs].\n *\n * The returned map preserves the entry iteration order
of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.\n
*\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\n
LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()\n\n/**\n * Creates a new read-only map by
replacing or adding entries to this map from another [map].\n *\n * The returned map preserves the entry iteration
order of the original map.\n * Those entries of another [map] that are missing in this map are iterated in the end in
the order
of that [map].\n *\npublic operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\n
LinkedHashMap(this).apply { putAll(map) }\n\n/**\n * Appends or replaces the given [pair] in this mutable
map.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in
V>.plusAssign(pair: Pair<K, V>) {\n put(pair.first, pair.second)\n}\n\n/**\n * Appends or replaces all pairs from
the given collection of [pairs] in this mutable map.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <K,
V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {\n putAll(pairs)\n}\n\n/**\n * Appends or
replaces all pairs from the given array of [pairs] in this mutable map.\n *\n@kotlin.internal.InlineOnly\npublic
inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {\n
putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.\n
*\n@kotlin.internal.InlineOnly\npublic
inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\n
putAll(pairs)\n}\n\n/**\n * Appends or replaces all entries from the given [map] in this mutable map.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map:
Map<K, V>) {\n putAll(map)\n}\n\n/**\n * Returns a map containing all entries of the original map except the
entry with the given [key].\n *\n * The returned map preserves the entry iteration order of the original map.\n
*\n@SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =\n
this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all
entries of the original map except those entries\n * the keys of which are contained in the given [keys] collection.\n
*\n * The returned map preserves the entry iteration order of the original map.\n *\n@SinceKotlin("1.1")\npublic
operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =\n this.toMutableMap().apply {
minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map
except those entries\n * the keys of which are contained in the given [keys] array.\n *\n * The returned map
preserves the entry iteration order of the original map.\n *\n@SinceKotlin("1.1")\npublic operator fun <K, V>
Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =\n this.toMutableMap().apply { minusAssign(keys)

```

```

}.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] sequence.\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys) }\n}.optimizeReadOnlyMap()\n\n/**\n * Removes the entry with the given [key] from this mutable map.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {\n    remove(key)\n}\n\n/**\n * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {\n    this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {\n    this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {\n    this.keys.removeAll(keys)\n}\n\n// do not expose for now\n@PublishedApi\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\n    0 -> emptyMap()\n    1 -> toSingletonMapOrSelf()\n    else -> this\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("SetsKt")\n@file:UseExperimental(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\ninternal object EmptySet : Set<Nothing>, Serializable {\n    private const val serialVersionUID: Long = 3406603774387020532\n    override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n    override fun hashCode(): Int = 0\n    override fun toString(): String = ""\n    override val size: Int get() = 0\n    override fun isEmpty(): Boolean = true\n    override fun contains(element: Nothing): Boolean = false\n    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n    private fun readResolve(): Any = EmptySet\n}\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n */\n@sample samples.collections.Collections.Sets.emptyReadOnlySet\n\n/**\n * 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).\n */\n@sample samples.collections.Collections.Sets.readOnlySet\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n */\n@sample samples.collections.Collections.Sets.emptyReadOnlySet\n\n/**\n * Returns an empty new [MutableSet]. The returned set preserves the element iteration order.\n */\n@sample samples.collections.Collections.Sets.emptyMutableSet\n\n/**\n * Returns a new [MutableSet] with the given elements. Elements of the set are iterated in the order they were specified.\n */\n@sample samples.collections.Collections.Sets.mutableSet\n\n/**\n * Returns an empty new [HashSet].\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements. Elements of the set are iterated in the order they were specified.\n */\n@sample samples.collections.Collections.Sets.mutableSet\n\n/**\n * Returns an empty new [HashSet].\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\n\n/**\n * Returns a new [HashSet] with the given elements.\n */\n@sample samples.collections.Collections.Sets.hashSetOf\n\n/**\n * Returns an empty new [LinkedHashSet].\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(vararg elements: T): HashSet<T> =\n    elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new [LinkedHashSet].\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(vararg elements: T): HashSet<T> =\n    elements.toCollection(HashSet(mapCapacity(elements.size)))

```

```

* @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T>\n
= LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are\n
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSet\n
*\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> =\n
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Builds a new read-only [Set] by\n
populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set with the same\n
elements.\n *\n * The set passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it\n
outside of the function produces an\n
unspecified behavior.\n *\n * Elements of the set are iterated in the order they were added by the [builderAction].\n\n
*\n * @sample samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>\n
buildSet(@BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n  contract {\n
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  return\n
LinkedHashSet<E>().apply(builderAction)\n}\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet]\n
using the given [builderAction]\n * and returning a read-only set with the same elements.\n *\n * The set passed as a\n
receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an\n
unspecified behavior.\n *\n * [capacity] is used to hint the expected number of elements added in the\n
[builderAction].\n *\n * Elements of the set are iterated in the order they were added by the [builderAction].\n\n
*\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample\n
samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>\n
buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n  contract {\n
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n  checkBuilderCapacity(capacity)\n  return\n
LinkedHashSet<E>(mapCapacity(capacity)).apply(builderAction)\n}\n\n/** Returns this Set if it's not `null` and\n
the empty set otherwise. *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this\n
?.emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n  0 -> emptySet()\n  1 ->\n
setOf(iterator().next())\n  else -> this\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming\n
Language contributors.\n * Use of this source code is governed by the Apache\n
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@file:Suppress("PLATFOR\n
M_CLASS_MAPPED_TO_KOTLIN")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte]\n
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n\n
*\n@SinceKotlin("1.1")\npublic fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses\n
the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a\n
number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number\n
conversion.\n *\n@SinceKotlin("1.1")\npublic fun String.toByteOrNull(radix: Int): Byte? {\n  val int =\n
this.toIntOrNull(radix) ?: return null\n  if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n\n
return int.toByte()\n}\n\n/**\n * Parses the string as a [Short]\n
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n\n
*\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\n\n/**\n * Parses\n
the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a\n
number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number\n
conversion.\n *\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(radix: Int): Short? {\n  val int =\n
this.toIntOrNull(radix) ?: return null\n  if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\n\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\n
is not a valid representation of a number.\n *\n@SinceKotlin("1.1")\npublic fun String.toIntOrNull(): Int? =\n
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")\npublic fun
String.toIntOrNull(radix: Int): Int? {\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: 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    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            } else 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    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            } else 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 numberFormatException(input: String): Nothing = throw
NumberFormatException("Invalid number format: '$input')\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("UnsignedKt")\n * @file:UseExperimental(ExperimentalUnsignedTypes::class)\npackage
kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n\n@PublishedApi\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n@PublishedApi\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n\n@PublishedApi\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// Copyright 2011 The Guava
Authors\n\n@PublishedApi\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    // 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@PublishedApi\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@PublishedApi\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@PublishedApi\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@PublishedApi\ninternal
fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() *
2\n\n@PublishedApi\ninternal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and
2047)\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  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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Given an [iterator]
function constructs an [Iterable] instance that returns values through the [Iterator]\n * provided by that function.\n
*\n @sample samples.collections.Iterables.Building.iterable\n *\n\n@kotlin.internal.InlineOnly\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\ninternal class IndexingIterable<out T>(private val
iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n  override fun iterator():
Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n\n/**\n * Returns the size of this iterable if
it is known, or `null` otherwise.\n *\n\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? =
if (this is Collection<*>) this.size else null\n\n\n/**\n * Returns the size of this iterable
if it is known, or the specified [default] value otherwise.\n *\n\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n\n**
Returns true when it's safe to convert this collection to a set without changing contains method behavior. *\n\nprivate
fun <T> Collection<T>.safeToConvertToSet() = size > 2 && this is ArrayList\n\n\n** Converts this collection to a
set, when it's worth so and it doesn't change contains method behavior. *\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 -> toHashSet()\n  }\n\n\n**

```



```

Converts this collection to a set, when it's worth so and it doesn't change contains method
behavior.
internal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> = when (this) {
    is Set -> this
    is Collection -> if (this.safeToConvertToSet()) toHashSet() else this.toHashSet()
}
Returns a single list of all elements from all collections in the given collection.
@sample
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.
@sample
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
}
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Apache 2.0 license that can be found in the license/LICENSE.txt file.
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")
package
kotlin.sequences
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.
@sample 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.
@sample
samples.collections.Sequences.Building.sequenceFromIterator
public fun <T> Iterator<T>.asSequence():
Sequence<T> = Sequence { this }.constrainOnce()
Creates a sequence that returns the specified values.
@sample 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.
public fun <T> 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.
@sample
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.
@sample 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_.
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_.
@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> {
    if (this is TransformingSequence<*, *>) {
        return (this as TransformingSequence<*,
T>).flatten(iterator)
    }
    return FlatteningSequence(this, { it }, iterator)
}
Returns a pair of lists,
where first list is built from the first values of each pair from this sequence, second list is built from the

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second values of each pair from this sequence.\n * The operation is _terminal_.\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 * A sequence that  
returns the values from the underlying [sequence] that either match or do not match  
* the specified [predicate].\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 */\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    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            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        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            @SuppressWarnings("UNCHECKED_CAST")\n            return result as T\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  
* in the underlying [sequence].\n */\ninternal class TransformingSequence<T,  
R>(\n    constructor(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            override fun hasNext(): Boolean {\n                return  
iterator.hasNext()\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/**\n * A sequence which returns  
the results of applying the given [transformer] function to the values  
* in the underlying [sequence], where the  
transformer function takes the index of the value in the underlying  
* sequence along with the value itself.\n */\ninternal class TransformingIndexedSequence<T, R>(\n    constructor(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            override fun hasNext(): Boolean {\n                return iterator.hasNext()\n            }\n        }\n    }\n}\n\n/**\n * A sequence which combines values from the underlying [sequence] with their indices and returns  
them as  
* [IndexedValue] objects.\n */\ninternal class IndexingSequence<T>(\n    constructor(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            override fun hasNext(): Boolean {\n                return iterator.hasNext()\n            }\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.\n */\ninternal class  
MergingSequence<T1, T2, V>(\n    constructor(\n        private val sequence1: Sequence<T1>,\n        private val sequence2:  
Sequence<T2>,\n        private val transform: (T1, T2) -> V\n) : Sequence<V> {\n        override fun iterator(): Iterator<V>  
= object : Iterator<V> {\n            val iterator1 = sequence1.iterator()\n            val iterator2 = sequence2.iterator()\n            override fun next(): V {\n                return transform(iterator1.next(), iterator2.next())\n            }\n            override fun  
hasNext(): Boolean {\n                return iterator1.hasNext() && iterator2.hasNext()\n            }\n        }\n    }\n}\n\ninternal class  
FlatteningSequence<T, R, E>(\n    constructor(\n        private val sequence: Sequence<T>,\n        private val transformer: (T)  
-> R,\n        private val iterator: (R) -> Iterator<E>\n) : Sequence<E>

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    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
        }
    }
}

/** 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> constructor(
    private val sequence: Sequence<T>,
    private val predicate: (T) -> Boolean
) : Sequence<T> {
    override fun iterator(): Iterator<T> = object : Iterator<T> {
        val iterator = sequence.iterator()
        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue
        var nextItem: T? = null
        private fun calcNext() {
            if (iterator.hasNext()) {
                val item = iterator.next()
                if (predicate(item)) {
                    nextState = 1
                    nextItem = item
                    return
                }
            }
            nextState = 0
        }
        override fun next(): T {
            if (nextState == -1) calcNext() // will change nextState
            if (nextState == 0) throw NoSuchElementException()
            @Suppress("UNCHECKED_CAST") val result = nextItem as T // Clean next to avoid keeping reference on yielded instance
            nextItem = null
            nextState = -1
            return result
        }
    }
}

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override fun hasNext(): Boolean {
    if (nextState == -1) calcNext() // will change nextState
    return nextState == 1
}
}
}

/** A sequence that skips the specified number of values from the
underlying [sequence] and returns all values after that.
*/
internal class DropSequence<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> = (count
+ n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }
    override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1)
}
    override fun iterator(): Iterator<T> = object : Iterator<T> {
        val iterator = sequence.iterator()
        var left = count
        // Shouldn't be called from constructor to avoid premature iteration
        private fun drop() {
            while (left > 0 && iterator.hasNext()) {
                iterator.next()
                left--
            }
        }
        override fun next(): T {
            drop()
            return iterator.next()
        }
        override fun hasNext(): Boolean {
            drop()
            return iterator.hasNext()
        }
    }
}

/** A sequence that skips the
values
from the underlying [sequence] while the given [predicate] returns `true` and returns all values after that.
*/
internal class DropWhileSequence<T> {
    constructor(
        private val sequence: Sequence<T>,
        private val predicate: (T) -> Boolean
    ) : Sequence<T> {
        override fun iterator(): Iterator<T> = object : Iterator<T> {
            val iterator = sequence.iterator()
            var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal
iteration
            var nextItem: T? = null
            private fun drop() {
                while (iterator.hasNext()) {
                    val item = iterator.next()
                    if (!predicate(item)) {
                        nextItem = item
                        dropState =
1
                        return
                    }
                    dropState = 0
                }
            }
            override fun next(): T {
                if (dropState == -1) drop()
                if (dropState == 1) {
                    @Suppress("UNCHECKED_CAST")
                    val result = nextItem as T
                    nextItem = null
                    dropState = 0
                    return result
                }
                return iterator.next()
            }
            override fun hasNext(): Boolean {
                if (dropState == -
1) drop()
                return dropState == 1 || iterator.hasNext()
            }
        }
    }
}

internal class
DistinctSequence<T, K>(private val source: Sequence<T>, private val keySelector: (T) -> K) : Sequence<T> {
    override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)
}

private class
DistinctIterator<T, K>(private val source: Iterator<T>, private val keySelector: (T) -> K) : AbstractIterator<T>() {
    private val observed = HashSet<K>()
    override fun computeNext() {
        while (source.hasNext()) {
            val next = source.next()
            val key = keySelector(next)
            if (observed.add(key)) {
                setNext(next)
                return
            }
            done()
        }
    }
}

private class
GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) :
Sequence<T> {
    override fun iterator(): Iterator<T> = object : Iterator<T> {
        var nextItem: T? = null
        var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue
        private fun calcNext() {
            nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)
            nextState = if (nextItem == null) 0 else 1
        }
        override fun next(): T {
            if (nextState < 0) calcNext()
            if (nextState == 0) throw NoSuchElementException()
            val result = nextItem as T
            // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep
state for getNextValue
            nextState = -1
            return result
        }
        override fun hasNext(): Boolean {
            if (nextState <
0) calcNext()
            return nextState == 1
        }
    }
}

/** Returns a wrapper sequence that
provides values of this sequence, but ensures it can be iterated only one time.
*/
/** The operation is
_intermediate_ and _stateless_.
*/
/** [IllegalStateException] is thrown on iterating the returned sequence from the
second time.
*/
public fun <T> Sequence<T>.constrainOnce(): Sequence<T> {
    // as? does not work in
js
    //return this as? ConstrainedOnceSequence<T>?
    ConstrainedOnceSequence(this)
    return if (this is
ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)
}

/** Returns a sequence which
invokes the function to calculate the next value on each iteration until the function returns `null`.
*/
/** The

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returned sequence is constrained to be iterated only once.\n *\n * @see
constrainOnce\n *\n * @see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequence\n *\npublic fun <T : Any>
generateSequence(nextFunction: () -> T?): Sequence<T> {\n    return GeneratorSequence(nextFunction, {
nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by the starting value [seed] and the
function [nextFunction],\n * which is invoked to calculate the next value based on the previous one on each
iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n * If [seed] is `null`, an empty
sequence is produced.\n *\n * The sequence can be iterated multiple times, each time starting with [seed].\n *\n *
@see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequenceWithSeed\n
*\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?,
nextFunction: (T) -> T?): Sequence<T> =\n    if (seed == null)\n        EmptySequence\n
    else\n        GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function
[seedFunction], which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to
calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it
encounters first `null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n * The
sequence can be iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequenceWithLazySeed\n *\npublic fun <T : Any>
generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n    GeneratorSequence(seedFunction, nextFunction)\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("PreconditionsKt")\n\npackage
kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic
inline fun require(value: Boolean): Unit {\n    contract {\n        returns() implies value\n    }\n    require(value) {\n
"Failed requirement." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling
[lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n
*\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n
contract {\n    returns() implies value\n }\n    if (!value) {\n        val message = lazyMessage()\n        throw
IllegalArgumentException(message.toString())\n    }\n}\n\n/**\n * Throws an [IllegalArgumentException]
if the [value] is null. Otherwise returns the not null value.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> requireNotNull(value: T?): T {\n    contract {\n        returns() implies (value != null)\n    }\n    return
requireNotNull(value) { "Required value was null." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failRequireWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n    contract {\n        returns() implies (value !=
null)\n    }\n    if (value == null) {\n        val message = lazyMessage()\n        throw
IllegalArgumentException(message.toString())\n    } else {\n        return value\n    }\n}\n\n/**\n * Throws an
[IllegalStateException] if the [value] is false.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n
*\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean): Unit {\n    contract {\n        returns()
implies value\n    }\n    check(value) { "Check failed." }\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

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*\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 * 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 2010-2019 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/\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.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 * 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 * 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 * 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 * 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 * 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 * 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 * 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
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 *\n
* @sample

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samples.collections.Collections.Elements.elementAt\n *\/\npublic actual fun CharArray.elementAt(index: Int): Char
{\n  return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")}
}\n}\n\n\n\n\n * Returns a [List] that wraps the original array.\n *\/\npublic actual fun <T> Array<out T>.asList():
List<T> {\n  return ArrayList<T>(this.unsafeCast<Array<Any?>>())}\n}\n\n\n\n\n * Returns a [List] that wraps the original array.\n *\/\n@kotlin.internal.InlineOnly\npublic actual inline fun
ByteArray.asList(): List<Byte> {\n  return this.unsafeCast<Array<Byte>>().asList()}\n}\n\n\n\n\n * Returns a [List]
that wraps the original array.\n *\/\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList():
List<Short> {\n  return this.unsafeCast<Array<Short>>().asList()}\n}\n\n\n\n\n * Returns a [List] that wraps the
original array.\n *\/\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n  return
this.unsafeCast<Array<Int>>().asList()}\n}\n\n\n\n\n * Returns a [List] that wraps the original array.\n
*\/\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n  return
this.unsafeCast<Array<Long>>().asList()}\n}\n\n\n\n\n * Returns a [List] that wraps the original array.\n
*\/\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList(): List<Float>
{\n  return this.unsafeCast<Array<Float>>().asList()}\n}\n\n\n\n\n * Returns a [List] that wraps the original array.\n
*\/\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n  return
this.unsafeCast<Array<Double>>().asList()}\n}\n\n\n\n\n * Returns a [List] that wraps the original array.\n
*\/\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n  return
this.unsafeCast<Array<Boolean>>().asList()}\n}\n\n\n\n\n * Returns a [List] that wraps the original array.\n
*\/\npublic actual fun CharArray.asList(): List<Char> {\n  return object : AbstractList<Char>(), RandomAccess {\n
  override val size: Int get() = this@asList.size\n  override fun isEmpty(): Boolean = this@asList.isEmpty()\n
  override fun contains(element: Char): Boolean = this@asList.contains(element)\n  override fun get(index: Int):
Char {\n    AbstractList.checkElementIndex(index, size)\n    return this@asList[index]\n  }\n  override fun indexOf(element: Char): Int {\n    if ((element as Any?) !is Char) return -1\n
return this@asList.indexOf(element)\n  }\n  override fun lastIndexOf(element: Char): Int {\n    if
((element as Any?) !is Char) return -1\n    return this@asList.lastIndexOf(element)\n  }\n  }\n}\n}\n}\n\n\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@library("arrayDeepEquals")\npublic actual infix
fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n  definedExternally}\n}\n}\n\n\n\n\n *
Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n
* \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n
*\/\n@SinceKotlin("1.1")\n@library("arrayDeepHashCode")\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n  definedExternally}\n}\n}\n\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@SinceKotlin("1.1")\n@library("arrayDeepToString")\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n  definedExternally}\n}\n}\n\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("1.1")\n@library("arrayEquals")\npublic actual infix fun <T> Array<out
T>.contentEquals(other: Array<out T>): Boolean {\n  definedExternally}\n}\n}\n\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@SinceKotlin("1.1")\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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("1.1")\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@SinceKotlin("1.1")\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("1.1")\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("1.1")\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].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun IntArray.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("1.1")\n@library("arrayHashCode")\npublic actual fun LongArray.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 * @since Kotlin("1.1")\n @library("arrayHashCode")\n public actual fun FloatArray.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 * @since Kotlin("1.1")\n @library("arrayHashCode")\n public actual fun DoubleArray.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 * @since Kotlin("1.1")\n @library("arrayHashCode")\n public actual fun BooleanArray.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 * @since Kotlin("1.1")\n @library("arrayHashCode")\n public actual fun CharArray.contentHashCode(): Int {\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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * @since Kotlin("1.1")\n @library("arrayToString")\n public 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 * \n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * \n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * \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 * \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * \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 * 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 * @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 * @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 * 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 * @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 * @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 * 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 * @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 * @return the [destination] array.\n
*\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 * It's allowed to pass the same array in the [destination] and even specify the subrange so

```



```

[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
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, 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/**\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/**\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/**\n * Returns new array which is a copy of the original array.\n * \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/**\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/**\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/**\n * Returns new array which is a copy of the original array.\n * \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/**\n * Returns new array which is a copy of the original array.\n * \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/**\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/**\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`

```

*^/npublic actual fun ByteArray.copyOf(newSize: Int): ByteArray {
  require(newSize >= 0) { "Invalid new array size: $newSize." }
  return fillFrom(this, ByteArray(newSize))
}

```

`\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`

```

*^/npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {
  require(newSize >= 0) { "Invalid new array size: $newSize." }
  return fillFrom(this, ShortArray(newSize))
}

```

`\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`

```

*^/npublic actual fun IntArray.copyOf(newSize: Int): IntArray {
  require(newSize >= 0) { "Invalid new array size: $newSize." }
  return fillFrom(this, IntArray(newSize))
}

```

`\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`

```

*^/npublic actual fun LongArray.copyOf(newSize: Int): LongArray {
  require(newSize >= 0) { "Invalid new array size: $newSize." }
  return withType("LongArray", arrayCopyResize(this, newSize, 0L))
}

```

`\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`

```

*^/npublic actual fun FloatArray.copyOf(newSize: Int): FloatArray {
  require(newSize >= 0) { "Invalid new array size: $newSize." }
  return fillFrom(this, FloatArray(newSize))
}

```

`\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`

```

*^/npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {
  require(newSize >= 0) { "Invalid new array size: $newSize." }
  return fillFrom(this, DoubleArray(newSize))
}

```

`\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`

```

*^/npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {
  require(newSize >= 0) { "Invalid new array size: $newSize." }
  return withType("BooleanArray", arrayCopyResize(this, newSize, false))
}

```

`\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 (      ) 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 (`    `) values.

```

@sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
public actual fun
CharArray.copyOf(newSize: Int): CharArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("CharArray", fillFrom(this, CharArray(newSize)))
}

```

Returns new array which is a copy of the original array, resized to the given [newSize]. The copy is either truncated or padded at the end with `null` values if necessary.

If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].

If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.

```

@sample
samples.collections.Arrays.CopyOfOperations.resizingCopyOf
public actual fun <T> Array<out T>.copyOf(newSize: Int):
Array<T?> {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return arrayCopyResize(this,
        newSize, null)
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

```

public actual fun <T> Array<out
T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {
    AbstractList.checkRangeIndexes(fromIndex,
        toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

```

public actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int):
ByteArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return
this.asDynamic().slice(fromIndex, toIndex)
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

```

public actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex,
        toIndex)
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

```

public actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex,
        toIndex)
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

```

public actual fun LongArray.copyOfRange(fromIndex:
Int, toIndex: Int): LongArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return
withType("LongArray", this.asDynamic().slice(fromIndex, toIndex))
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

```

public actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex,
        toIndex)
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

```

public actual fun DoubleArray.copyOfRange(fromIndex:
Int, toIndex: Int): DoubleArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return
this.asDynamic().slice(fromIndex, toIndex)
}

```

Returns a new array which is a copy of the specified range of the original array.

@param fromIndex the start of the range (inclusive), must be in `0..array.size`

@param toIndex the end of the range

(exclusive), must be in `fromIndex..array.size`\n *\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType(`BooleanArray`, 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), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n *\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType(`CharArray`, 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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*\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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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*\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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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*\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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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*\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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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*\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);}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (exclusive), 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].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (exclusive), 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].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (exclusive), 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].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")
public actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ByteArray.plus(element: Byte): ByteArray {
    return plus(byteArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ShortArray.plus(element: Short): ShortArray {
    return plus(shortArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun IntArray.plus(element: Int): IntArray {
    return plus(intArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun LongArray.plus(element: Long): LongArray {
    return plus(longArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array

```


and then the given [element].\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

*^@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 *^@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 *^@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 *^@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual operator fun <T> Array<out T>.plus(elements: 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

*^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^@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

*^@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

*^@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
*\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  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 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
*\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 the array in-place according to the order specified by the given [comparison]
function.\n
*\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@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 *^@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 *^@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 *^@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 *^@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 *^@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 * 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(): 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 * @Suppress("NOTHING_TO_INLINE")\n * \n * public
inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a,
b)\n\n/\n\n/**\n * Compares two nullable [Comparable] values. Null is considered less than any value.\n * \n * \n *
@sample samples.comparisons.Comparisons.compareValues\n * \n * public 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\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 * \n *
@sample samples.comparisons.Comparisons.compareByWithSelectors\n * \n * public 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 * \n * @sample
samples.comparisons.Comparisons.compareByWithSingleSelector\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline
fun <T> compareBy(crossinline selector:
(T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(a, b, selector) }\n}\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 * \n * @sample
samples.comparisons.Comparisons.compareByWithComparator\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline
fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\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 * \n * @sample
samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline
fun <T> compareByDescending(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\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 * \n * Note that an order of [comparator] is reversed by this
wrapper.\n * \n * \n * @sample samples.comparisons.Comparisons.compareByDescendingWithComparator\n * \n *
@kotlin.internal.InlineOnly\n * \n * public inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\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 * \n * @sample
samples.comparisons.Comparisons.thenBy\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <T>
Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\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].

```

@sample
samples.comparisons.Comparisons.thenByWithComparator
    @kotlin.internal.InlineOnly
    public inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenBy.compare(a, b)
        if (previousCompare != 0)
            previousCompare else compareValuesBy(a, b, comparator, selector)
    }

```

Creates a descending comparator using the primary comparator and the function to transform value to a [Comparable] instance for comparison.

```

@sample
samples.comparisons.Comparisons.thenByDescending
    @kotlin.internal.InlineOnly
    public inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenByDescending.compare(a, b)
        if (previousCompare != 0)
            previousCompare else compareValuesBy(b, a, selector)
    }

```

Creates a descending comparator comparing values after the primary comparator defined them equal. It uses the [selector] function to transform values and then compares them with the given [comparator].

```

@sample
samples.comparisons.Comparisons.thenByDescendingWithComparator
    @kotlin.internal.InlineOnly
    public inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenByDescending.compare(a, b)
        if (previousCompare != 0)
            previousCompare else compareValuesBy(b, a, comparator, selector)
    }

```

Creates a comparator using the primary comparator and function to calculate a result of comparison.

```

@sample
samples.comparisons.Comparisons.thenComparator
    @kotlin.internal.InlineOnly
    public inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenComparator.compare(a, b)
        if (previousCompare != 0)
            previousCompare else comparison(a, b)
    }

```

Combines this comparator and the given [comparator] such that the latter is applied only when the former considered values equal.

```

@sample
samples.comparisons.Comparisons.then
    @kotlin.internal.InlineOnly
    public infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@then.compare(a, b)
        if (previousCompare != 0)
            previousCompare else comparator.compare(a, b)
    }

```

Combines this comparator and the given [comparator] such that the latter is applied only when the former considered values equal.

```

@sample
samples.comparisons.Comparisons.thenDescending
    @kotlin.internal.InlineOnly
    public infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =
    Comparator<T> { a, b ->
        val previousCompare = this@thenDescending.compare(a, b)
        if (previousCompare != 0)
            previousCompare else comparator.compare(b, a)
    }

```

Not so useful without type inference for receiver of expression.

Extends the given [comparator] of non-nullable values to a comparator of nullable values considering `null` value less than any other value.

```

@sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator
    @kotlin.internal.InlineOnly
    public fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =
    Comparator { a, b ->
        when {
            a === b -> 0
            a == null -> -1
            b == null -> 1
            else -> comparator.compare(a, b)
        }
    }

```

Provides a comparator of nullable [Comparable] values considering `null` value less than any other value.

```

@sample
samples.comparisons.Comparisons.nullsFirstLastComparator
    @kotlin.internal.InlineOnly
    public inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
    nullsFirst(naturalOrder())

```

Extends the given [comparator] of non-nullable values to a comparator of nullable values considering `null` value greater than any other value.

```

@sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator
    @kotlin.internal.InlineOnly
    public fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =
    Comparator { a, b ->
        when {
            a === b -> 0
            a == null -> 1
            b == null -> -1
            else -> comparator.compare(a, b)
        }
    }

```

Provides a comparator of nullable [Comparable] values considering `null` value greater than any other value.

```

samples.comparisons.Comparisons.nullsFirstLastComparator\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 */\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
@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
@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\npackage kotlin\n\npublic actual
interface Comparator<T> {\n    @JsName("compare")\n    actual fun compare(a: T, b: T): Int\n}\n\npublic actual
inline fun <T> Comparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> = object : Comparator<T>
{\n    override fun compare(a: T, b: T): Int = comparison(a, b)\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 *\n @kotlin.internal.InlineOnly\n public 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 *\n @kotlin.internal.InlineOnly\n public 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 *\n @kotlin.internal.InlineOnly\n @SinceKotlin("1.1")\n public 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 *\n @kotlin.internal.InlineOnly\n public 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 *\n @kotlin.internal.InlineOnly\n @SinceKotlin("1.1")\n public 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 *\n @kotlin.internal.InlineOnly\n @SinceKotlin("1.1")\n public 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 *\n @kotlin.internal.InlineOnly\n public 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 2010-2019 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 @npackage kotlin.comparisons\n\n/\n\n NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateStandardLib.kt\n\n See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\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 *\n @kotlin.internal.InlineOnly\n @SinceKotlin("1.1")\n public
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 *\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual
inline fun maxOf(a: Byte, b: Byte): Byte {\n return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n
*\n * Returns the greater of two values.\n
*\n *\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual
inline fun maxOf(a: Short, b: Short): Short {\n return Math.max(a.toInt(),
b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n
*\n *\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual
inline fun maxOf(a: Int, b: Int): Int {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*\n *\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\n public
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@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Float, b: Float): Float {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Double, b: Double): Double {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of three values.\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\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n    return Math.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\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n    return Math.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\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n *\n@SinceKotlin("1.1")\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@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the smaller of two values.\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 {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun minOf(a: Byte, b: Byte): Byte {\n    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of two values.\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun minOf(a: Short, b: Short): Short {\n    return Math.min(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun minOf(a: Int, b: Int): Int {\n    return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n
```

```
*\n@SinceKotlin("1.1")\n@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun minOf(a: Float, b: Float): Float {\n    return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun minOf(a: Double, b: Double): Double {\n    return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n
```

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*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n    return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n
```



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*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Short, b: Short, c: Short): Short {\n    return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Int, b: Int, c: Int): Int {\n    return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three
values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c:
Long): Long {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Float, b: Float, c: Float): Float {\n    return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller
of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Double, b: Double, c: Double): Double {\n    return Math.min(a, b, c)\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\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\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
*\npublic 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
*\npublic 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 if the [index] is out of bounds of this collection.\n
*\n * @sample samples.collections.Collections.Elements.elementAt\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

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[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 * \n @kotlin.internal.InlineOnly\npublic fun <T>
Iterable<T>.elementAtOrNull(index: Int): T? {\n    if (this is List)\n        return this.getOrNull(index)\n    if (index <
0)\n        return null\n\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.getOrNull(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\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 @kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) ->
Boolean): T? {\n\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 @kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) ->
Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the collection is empty.\n * \n @kotlin.internal.InlineOnly\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 * \n @kotlin.internal.InlineOnly\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 * \n @kotlin.internal.InlineOnly\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 element, or `null` if the collection is empty.\n * \n @kotlin.internal.InlineOnly\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n    when
(this) {\n        is List -> {\n            if (isEmpty())\n                return null\n            else\n                return this[0]\n        }\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n * \n @kotlin.internal.InlineOnly\npublic
fun <T> List<T>.firstOrNull(): T? {\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 @kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\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 list.\n * \n @kotlin.internal.InlineOnly\npublic inline
fun <T> List<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 `null` if the
[index] is out of bounds of this list.\n * \n @kotlin.internal.InlineOnly\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n    return if (index >=
0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection
does not contain element.\n * \n @kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element:
T): Int {\n    if (this is List) return this.indexOf(element)\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 first index of [element], or -1 if the list does not contain element.\n
*\n @kotlin.internal.Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in

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some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n  return
indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
collection does not contain such element.\n */\npublic inline fun <T> Iterable<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 first
element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T>
List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n  var index = 0\n  for (item in this) {\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 collection does not contain such element.\n */\npublic inline fun
<T> Iterable<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 index of the last element matching the given [predicate], or -1 if the list
does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n
val iterator = this.listIterator(size)\n  while (iterator.hasPrevious()) {\n    if (predicate(iterator.previous())) {\n
return iterator.nextIndex()\n    }\n  }\n  return -1\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the
collection is empty.\n */\npublic fun <T> Iterable<T>.last(): T {\n  when (this) {\n    is List -> return this.last()\n
else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        throw
NoSuchElementException("Collection is empty.")\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.\n * @throws [NoSuchElementException] if the list is empty.\n */\npublic fun <T> List<T>.last(): T {\n
if (isEmpty())\n  throw NoSuchElementException("List is empty.")\n  return this[lastIndex]\n}\n\n/**\n *
Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {\n  var last: T? = null\n  var found = false\n
for (element in this) {\n    if (predicate(element)) {\n      last = element\n      found = true\n    }\n  }\n  if (!found) throw
NoSuchElementException("Collection contains no element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return last as T\n}\n\n/**\n * Returns the last element matching the
given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\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 matching the predicate.")\n}\n\n/**\n * Returns
last index of [element], or -1 if the collection does not contain element.\n */\npublic fun
<@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n  if (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
lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n
*/\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n  return
lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n */\npublic fun
<T> Iterable<T>.lastOrNull(): T? {\n  when (this) {\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 list is empty.\n */\npublic fun <T> List<T>.lastOrNull(): T?
{\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 */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate:
(T) -> Boolean): T? {\n  var last: T? = null\n  for (element in this) {\n    if (predicate(element)) {\n      last =

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element\n    }\n    }\n    return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n *\npublic inline fun <T> List<T>.lastOrNull(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    return null\n}\n\n/**\n * Returns a random element from this collection.\n *\n * @throws
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 random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of
randomness.\n *\n * @throws 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 NoSuchElementException("Collection is empty.")\n    return 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("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Collection<T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> Collection<T>.randomOrNull(random:
Random): T? {\n    if (isEmpty())\n        return null\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n
*\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -> return this.single()\n        else -> {\n
            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException("Collection
is empty.")\n            val single = iterator.next()\n            if (iterator.hasNext())\n                throw
IllegalArgumentOutOfRangeException("Collection has more than one element.")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is
empty or has more than one element.\n *\npublic fun <T> List<T>.single(): T {\n    return when (size) {\n        0 ->
throw NoSuchElementException("List is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentOutOfRangeException("List has more than one element.")\n    }\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 <T> Iterable<T>.single(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) throw
IllegalArgumentOutOfRangeException("Collection contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\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/**\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    }\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) {\n    "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

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(this is List<T>) {\n
  if (this is RandomAccess) {\n      for (index in n until size)\n          list.add(this[index])\n      } else\n  {\n      for (item in listIterator(n))\n          list.add(item)\n      }\n  }\n  return list\n}\n\nelse {\n  list = ArrayList<T>()\n  var count = 0\n  for (item in this) {\n    if (count >= n) list.add(item)\n    else ++count\n  }\n  return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing all elements except\n last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample\n 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  n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given\n [predicate].\n * \n * @sample\n 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  }\n  return emptyList()\n}\n\n/**\n * Returns a\n list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate:\n (T) -> Boolean): List<T> {\n  var yielding = false\n  val list = ArrayList<T>()\n  for (item in this)\n    if\n (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\n [predicate].\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n  return\n filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given\n [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns\n the result of predicate evaluation on the element.\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate:\n (index: Int, T) -> Boolean): List<T> {\n  return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends\n all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the\n index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate:\n (index: Int, T) -> Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index,\n    element)) destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Returns a list containing all elements\n that are instances of specified type parameter R.\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance():\n List<@kotlin.internal.NoInfer R> {\n  return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all\n elements that are instances of specified type parameter R to the given [destination].\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n  for (element in this) if\n (element is R) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a list containing all elements\n not matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean):\n List<T> {\n  return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that\n are not `null`.\n */\npublic fun <T : Any> Iterable<T?>.filterNotNull():\n List<T> {\n  return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the\n given [destination].\n */\npublic fun <C : MutableCollection<in T>, T : Any>\n Iterable<T?>.filterNotNullTo(destination: C): C {\n  for (element in this) if (element != null)\n    destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not matching the given\n [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>>\n Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in this) if\n (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching\n the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>>\n Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in this) if (predicate(element))\n    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>\n List<T>.slice(indices: IntRange): List<T> {\n  if (indices.isEmpty()) return listOf()\n  return

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this.subList(indices.start, indices.endInclusive + 1).toList()\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun <T> List<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 first [n]
elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Iterable<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
(this is Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return listOf(first())\n    }\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.optimizeReadOnlyList()\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> List<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(last())\n    val list = ArrayList<T>(n)\n    if (this is
RandomAccess) {\n        for (index in size - n until size)\n            list.add(this[index])\n    } else {\n        for (item in
listIterator(size - n))\n            list.add(item)\n    }\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>
List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (isEmpty())\n        return emptyList()\n    val
iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (!predicate(iterator.previous())) {\n
iterator.next()\n            val expectedSize = size - iterator.nextIndex()\n            if (expectedSize == 0) return
emptyList()\n            return ArrayList<T>(expectedSize).apply {\n                while (iterator.hasNext())\n                add(iterator.next())\n            }\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
inline fun <T> Iterable<T>.takeWhile(predicate:
(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 * Reverses elements in the list in-place.\n */\npublic
expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\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 * Sorts elements in the list 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>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1)\n        sortWith(compareBy(selector))\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 * 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>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size >
1)\n        sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list 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>> MutableList<T>.sortDescending(): Unit {\n    sortWith(reverseOrder())\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>> Iterable<T>.sorted(): List<T>
{\n    if (this is Collection) {\n        if (size <= 1) return this.toList()\n        @Suppress(\"UNCHECKED_CAST\")\n        return (toTypedArray<Comparable<T>>) as Array<T>).apply { sort() }.asList()\n    }\n    return
toMutableList().apply { sort() }\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 * 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>>

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Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\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>>
Iterable<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 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>>
Iterable<T>.sortedDescending(): List<T> {\n  return sortedWith(reverseOrder())\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 */\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 (toArray<Any?>() as Array<T>).apply {
sortWith(comparator) }.asList()\n  }\n  return toMutableList().apply
{ sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the elements of this
collection.\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 * Returns an array of Byte containing all of the elements of this collection.\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 * Returns an array of Char containing all of the
elements of this collection.\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
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 */\npublic inline fun <T, K, V>
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,

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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

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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
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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),
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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
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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
```

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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
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    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
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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 * \n * @public fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n
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    }\n    return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n * \n * @public fun <T>
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Iterable<T>.toHashSet(): HashSet<T> {\n    return
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toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all elements.\n * \n * @public fun <T> Iterable<T>.toList(): List<T> {\n    if (this is Collection) {\n        return when (size)
```



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{\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
[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 [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 * Appends all elements yielded from results of [transform] function
being invoked on each element of original collection, to the given [destination].\n */\npublic 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 * 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 */\npublic 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
*/\npublic 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
*/\npublic 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        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.groupByKeysAndValues\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>

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Iterable<T>.groupBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n  return object : Grouping<T, K>
{\n    override fun sourceIterator(): Iterator<T> = this@groupBy.iterator()\n    override fun keyOf(element:
T): K = keySelector(element)\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 * @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 */\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
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an
[IndexValue] 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 * 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 * 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 =

```



```

left\n * to each element with its index in the original list and current accumulator value.\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>
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\npublic 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 * @param [action] function that takes the index of an element and the element itself\n *
and performs the desired action on the element.\n */\npublic 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/**\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("1.1")\npublic fun Iterable<Double>.max(): Double? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\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("1.1")\npublic fun Iterable<Float>.max(): Float? {\n    val
iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return
max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\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 */\npublic fun <T : Comparable<T>>
Iterable<T>.max(): 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/**\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.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(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 first element having the largest value according to
the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.maxWith(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/**\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("1.1")\npublic fun Iterable<Double>.min():
Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if
(min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\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("1.1")\npublic fun Iterable<Float>.min(): Float? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\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 */\npublic fun <T : Comparable<T>>
Iterable<T>.min(): 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/**\n * Returns

```

```

the first element yielding the smallest value of the given function or `null` if there are no elements.
 * @sample samples.collections.Collections.Aggregates.minBy
 * public inline fun <T, R : Comparable<R>>
 * Iterable<T>.minBy(selector: (T) -> R): T? {
 *     val iterator = iterator()
 *     if (!iterator.hasNext()) return null
 *     var minElem = iterator.next()
 *     if (!iterator.hasNext()) return minElem
 *     var minValue = selector(minElem)
 *     do {
 *         val e = iterator.next()
 *         val v = selector(e)
 *         if (minValue > v) {
 *             minElem = e
 *             minValue = v
 *         }
 *     } while (iterator.hasNext())
 *     return minElem
 * }
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 * public fun
 * <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {
 *     val iterator = iterator()
 *     if (!iterator.hasNext()) return null
 *     var min = iterator.next()
 *     while (iterator.hasNext()) {
 *         val e = iterator.next()
 *         if (comparator.compare(min, e) > 0) min = e
 *     }
 *     return min
 * }
 * Returns `true` if the collection has no elements.
 * @sample
 * samples.collections.Collections.Aggregates.none
 * public fun <T> Iterable<T>.none(): Boolean {
 *     if (this is Collection) return isEmpty()
 *     return !iterator().hasNext()
 * }
 * Returns `true` if no elements match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 * public inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {
 *     if (this is Collection && isEmpty()) return true
 *     for (element in this) if (predicate(element)) return false
 *     return true
 * }
 * Performs the given [action] on each element and returns the collection itself afterwards.
 * @SinceKotlin("1.1")
 * public inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {
 *     return apply { for (element in this) action(element) }
 * }
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * @sample
 * samples.collections.Collections.Aggregates.reduce
 * public inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {
 *     val iterator = this.iterator()
 *     if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
 *     var accumulator: S = iterator.next()
 *     while (iterator.hasNext()) {
 *         accumulator = operation(accumulator, iterator.next())
 *     }
 *     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 collection.
 * @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
 * public inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
 *     val iterator = this.iterator()
 *     if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
 *     var index = 1
 *     var accumulator: S = iterator.next()
 *     while (iterator.hasNext()) {
 *         accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
 *     }
 *     return accumulator
 * }
 * 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 collection is empty.
 * @sample
 * samples.collections.Collections.Aggregates.reduceOrNull
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 * public inline fun <S, T : S> Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
 *     val iterator = this.iterator()
 *     if (!iterator.hasNext()) return null
 *     var accumulator: S = iterator.next()
 *     while (iterator.hasNext()) {
 *         accumulator = operation(accumulator, iterator.next())
 *     }
 *     return accumulator
 * }
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceRight
 * public inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {
 *     val iterator = listIterator(size)
 *     if (!iterator.hasPrevious()) throw UnsupportedOperationException("Empty list can't be reduced.")
 *     var accumulator: S = iterator.previous()
 *     while (iterator.hasPrevious()) {
 *         accumulator = operation(iterator.previous(), accumulator)
 *     }
 *     return accumulator
 * }
 * Accumulates value starting with last element and applying [operation] from right to left to each element with its index in

```

the original list and current accumulator value.

```

    * @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 <S, T : S>
    List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
    val index = iterator.previousIndex()
    accumulator = operation(index, iterator.previous(), accumulator)
    }
    return accumulator
    }
    *
    * Accumulates value starting with last element and applying [operation] from right to left to each element and current
    accumulator value. Returns null if the list is empty.
    *
    * @sample
    samples.collections.Collections.Aggregates.reduceRightOrNull
    *
    * public inline fun <S, T : S>
    List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        return null
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
    accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
    }
    *
    * 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
    *
    * public inline fun <T, R> Iterable<T>.scan(initial: R,
    operation: (acc: R, T) -> R): List<R> {
    val estimatedSize = collectionSizeOrDefault(9)
    if (estimatedSize == 0)
        return listOf(initial)
    val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
    accumulator = operation(accumulator, element)
    result.add(accumulator)
    }
    return result
    }
    *
    * 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
    *
    * public inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
    val estimatedSize = collectionSizeOrDefault(9)
    if (estimatedSize == 0)
        return listOf(initial)
    val result =
    ArrayList<R>(estimatedSize + 1).apply { add(initial) }
    var index = 0
    var accumulator = initial
    for (element in this) {
    accumulator = operation(index++, accumulator, element)
    result.add(accumulator)
    }
    return result
    }
    *
    * 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 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 current accumulator value and the element, and calculates the next accumulator value.
    *
    * @sample
    samples.collections.Collections.Aggregates.scanReduce
    *
    * public inline fun <S, T : S>
    Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext())
        return emptyList()
    var accumulator: S = iterator.next()
    val result =
    ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    while (iterator.hasNext()) {
    accumulator = operation(accumulator, iterator.next())
    result.add(accumulator)
    }
    return
    result
    }
    *
    * 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.scanReduce

```

*\/n@SinceKotlin("1.3")\/n@ExperimentalStdlibApi\/npublic inline fun <S, T : S>
Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    var index = 1
    while (iterator.hasNext()) {
        accumulator = operation(index++, accumulator, iterator.next())
        result.add(accumulator)
    }
    return result
}

```

* Returns the sum of all values produced by [selector] function applied to each element in the collection.

```

*\/npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    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 collection.

```

*\/npublic inline fun <T>
Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

```

* Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.

```

*\/npublic fun <T : Any>
Iterable<T?>.requireNonNulls(): Iterable<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as Iterable<T>
}

```

* Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.

```

*\/npublic fun <T : Any> List<T?>.requireNonNulls(): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}

```

* Splits this collection into a list of lists each not exceeding the given [size].

The last list in the resulting list may have less elements than the given [size].

@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.

@sample samples.collections.Collections.Transformations.chunked

```

*\/n@SinceKotlin("1.2")\/npublic fun <T>
Iterable<T>.chunked(size:
Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

```

* Splits this collection into several lists each not exceeding the given [size] and applies the given [transform] function to an each.

@return list of results of the [transform] applied to an each list.

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.

The last list may have less elements than the given [size].

@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.

@sample samples.text.Strings.chunkedTransform

```

*\/n@SinceKotlin("1.2")\/npublic fun <T, R>
Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R>
{
    return windowed(size, size, partialWindows = true, transform = transform)
}

```

* Returns a list containing all elements of the original collection without the first occurrence of the given [element].

```

*\/npublic operator fun <T>
Iterable<T>.minus(element: T): List<T> {
    val result = ArrayList<T>(collectionSizeOrDefault(10))
    var removed = false
    return this.filterTo(result) {
        if (!removed && it == element) {
            removed = true; false
        } else true
    }
}

```

* Returns a list containing all elements of the original collection except the elements contained in the given [elements] array.

The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

```

*\/npublic operator fun <T>
Iterable<T>.minus(elements: Array<out T>): List<T> {
    if (elements.isEmpty()) return this.toList()
    val other = elements.toHashSet()
    return this.filterNot { it in other }
}

```

* Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.

* The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of hashCode() that doesn't change between successive invocations.

```

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.

* The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of hashCode() that doesn't change between successive invocations.

```

public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
    val other = elements.toHashSet()
    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.

```

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].\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T):
List<T> {\n    return plus(element)\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may
have less 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 collection.\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>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n
checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize = this.size\n
val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result =
ArrayList<List<T>>(resultCapacity)\n        var index = 0\n        while (index in 0 until thisSize) {\n            val
windowSize = size.coerceAtMost(thisSize - index)\n            if (windowSize < size && !partialWindows) break\n
            result.add(List(windowSize) { this[it + index] })\n            index += step\n        }\n        return result\n    }\n    val
result = ArrayList<List<T>>()\n        windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n            result.add(it)\n        }\n    return result\n}\n\n/**\n * Returns a list 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 collection 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 less 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 collection.\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>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
List<R> {\n    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize =
this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result =
ArrayList<R>(resultCapacity)\n        val window = MovingSubList(this)\n        var index = 0\n        while (index in 0
until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize - index)\n            if (!partialWindows &&
windowSize < size) break\n            window.move(index, index + windowSize)\n            result.add(transform(window))\n            index += step\n        }\n        return result\n    }\n    val result =
ArrayList<R>()\n        windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n
            result.add(transform(it))\n        }\n    return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this`
collection 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> Iterable<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 values
built from the elements of `this` collection 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 *^\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) ->
V): List<V> {\n    val arraySize = other.size\n    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),
arraySize))\n    var i = 0\n    for (element in this) {\n        if (i >= arraySize) break\n        list.add(transform(element,
other[i++]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and
[other] collection with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample

```

```

samples.collections.Iterables.Operations.zipIterable\n *^public infix fun <T, R> Iterable<T>.zip(other:
Iterable<R>): List<Pair<T, 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` 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
*^public 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/**\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
*^@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n    return zipWithNext
{ a, b -> a to b }\n}\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 *^@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/**\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
*^public fun <T, A : Appendable> Iterable<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 * @sample samples.collections.Collections.Transformations.joinToString\n *^public fun <T>
Iterable<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 * Returns this
collection as an [Iterable].\n *^@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable():
Iterable<T> {\n    return this\n}\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 *^public fun <T> Iterable<T>.asSequence():
Sequence<T> {\n    return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the
collection.\n *^@kotlin.jvm.JvmName("averageOfByte")\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/**\n * Returns an average value of elements in the collection.\n
*^@kotlin.jvm.JvmName("averageOfShort")\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/**\n * Returns
an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName("averageOfInt")\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/**\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 * 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/** Returns the array if it's not `null`, or an empty array otherwise.\n */\n@kotlin.internal.InlineOnly\npublic
actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?\n
emptyArray<T>()\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/** Returns an immutable

```

list containing only the specified object [element].

```

public fun <T> listOf(element: T): List<T> =
arrayListOf(element)

```

* Returns an immutable set containing only the specified object [element].

```

public fun <T> setOf(element: T): Set<T> = hashSetOf(element)

```

* 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)

```

* 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%E2%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.

```

public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit
{
    Collections.sort(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.

```

public actual fun <T>
MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {
    Collections.sort(this,
comparator)
}
private fun <T> Collections.sort(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
@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this
@Suppress("NOTHING_TO_INLINE")
internal actual inline
fun <K, V> Map<out K, V>.toSingletonMap():
Map<K, V> = this.toMutableMap()
@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <T>
Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =
    if (isVarargs) // no need to
copy vararg array in JS
    this
    else
    this.copyOf()
@PublishedApi
internal actual fun
checkIndexOverflow(index: Int): Int {
    if (index < 0) {
        throwIndexOverflow()
    }
    return
index
}
@PublishedApi
internal actual fun checkCountOverflow(count: Int): Int {
    if (count < 0) {
        throwCountOverflow()
    }
    return count
}
// JS map and set implementations do not make use of
capacities or load factors.
@PublishedApi
internal actual fun mapCapacity(expectedSize: Int) =
expectedSize
// Checks a collection builder function capacity argument.
// In JS no validation is made in
Map/Set constructor yet.
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@PublishedApi
internal actual
fun checkBuilderCapacity(capacity:
Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}

```

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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 * @sample samples.collections.Iterators.iterator\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 * @sample samples.collections.Iterators.withIndexIterator\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 * @sample  
samples.collections.Iterators.forEachIterator\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 2010-2019 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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n\npackage  
kotlin.comparisons\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 * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun  
<T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte):  
Byte\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short): Short\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float):  
Float\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double):  
Double\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\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@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte):  
Byte\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c:  
Short): Short\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a:  
Int, b: Int, c: Int): Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long, c:  
Long): Long\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float, c:  
Float): Float\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c:  
Double): Double\n\n/**\n * Returns the greater of three values according to the order specified by the given  
[comparator].\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>):  
T {\n    return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater of two values  
according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n
```

```

*^@SinceKotlin("1.1")\npublic
fun <T> maxOf(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 two values.\n * If values are equal, returns the first one.\n
*^@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the
smaller of two values.\n *^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a:
Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short):
Short\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n
* Returns the smaller of two values.\n *^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float):
Float\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double):
Double\n\n/**\n * Returns the smaller of three values.\n *^@SinceKotlin("1.1")\npublic expect fun <T :
Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte):
Byte\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c:
Short): Short\n\n/**\n * Returns the smaller of three values.\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 *^@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
*^@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
*^@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 *^@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 * If values are equal, returns the first one.\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 * 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@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 a [List] containing all key-value pairs.\n
*^@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.Collections.Transformations.flatMap\n *^@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 * Appends all elements yielded from results of [transform] function being invoked on each

```

entry of original map, to the given [destination].

```

public inline fun <K, V, R, C : MutableCollection<in R>>
Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

```

Returns a list containing the results of applying the given [transform] function to each entry in the original map.

```

@sample samples.collections.Maps.Transformations.mapToList
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each entry in the original map.

```

public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

```

Applies the given [transform] function to each entry in the original map and appends only the non-null results to the given [destination].

```

public inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {
    for (element in this) {
        transform(element)?.let { destination.add(it) }
    }
    return destination
}

```

Applies the given [transform] function to each entry of the original map and appends the results to the given [destination].

```

public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {
    for (item in this) {
        destination.add(transform(item))
    }
    return destination
}

```

Returns `true` if all entries match the given [predicate].

```

@sample samples.collections.Collections.Aggregates.all
public inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return true
    for (element in this) {
        if (!predicate(element)) return false
    }
    return true
}

```

Returns `true` if map has at least one entry.

```

@sample samples.collections.Collections.Aggregates.any
public fun <K, V> Map<out K, V>.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if at least one entry matches the given [predicate].

```

@sample samples.collections.Collections.Aggregates.anyWithPredicate
public inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return false
    for (element in this) {
        if (predicate(element)) return true
    }
    return false
}

```

Returns the number of entries in this map.

```

@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.count(): Int {
    return size
}

```

Returns the number of entries matching the given [predicate].

```

public inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {
    if (isEmpty()) return 0
    var count = 0
    for (element in this) {
        if (predicate(element)) ++count
    }
    return count
}

```

Performs the given [action] on each entry.

```

@kotlin.internal.HidesMembers
public inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {
    for (element in this) {
        action(element)
    }
}

```

Returns the first entry yielding the largest value of the given function or `null` if there are no entries.

```

@sample samples.collections.Collections.Aggregates.maxBy
@kotlin.internal.InlineOnly
public inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {
    return entries.maxBy(selector)
}

```

Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.

```

@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {
    return entries.maxWith(comparator)
}

```

Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.

```

@sample samples.collections.Collections.Aggregates.minBy
public inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {
    return entries.minBy(selector)
}

```

Returns the first entry having the smallest value according to the provided [comparator] or `null` if there are no entries.

```

public fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {
    return entries.minWith(comparator)
}

```

Returns `true` if the map has no entries.

```

@sample samples.collections.Collections.Aggregates.none
public fun <K, V> Map<out K, V>.none(): Boolean {
    return isEmpty()
}

```

```

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@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 * 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 2010-2019 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@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 * 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@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@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

```



```

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 * @throws [NoSuchElementException]
if the sequence is empty.\n *\n * The operation is _terminal_.\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 * @throws [NoSuchElementException] if no such
element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) -
> Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return last as T\n}\n\n/**\n * Returns last 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>.lastIndexOf(element: T): Int {\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 lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is
empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\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 * Returns the last element
matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for
(element in this) {\n        if (predicate(element)) {\n            last = element\n        }\n    }\n    return last\n}\n\n/**\n * Returns the single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n    val iterator = iterator()\n    if
(!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n    val single =
iterator.next()\n    if (iterator.hasNext())\n        throw IllegalArgumentException("Sequence has more than one
element.")\n    return single\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 * The
operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.single(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)\n                throw IllegalArgumentException("Sequence contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Sequence contains no
element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as T\n}\n\n/**

```

Returns single element, or `null` if the sequence is empty or has more than one element.

```

    * The operation is
    _terminal_
    * \n * \n public fun <T> Sequence<T>.singleOrNull(): T? {
    \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 * Returns the single element matching the
    given [predicate], or `null` if element was not found or more than one element was found.
    * The operation is
    _terminal_
    * \n * \n public inline fun <T> Sequence<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 * Returns a sequence containing all elements except first [n] elements.
    * The operation is
    _intermediate_ and _stateless_
    * \n * \n * @throws IllegalArgumentException if [n] is negative.
    * \n * @sample
    samples.collections.Collections.Transformations.drop
    * \n public fun <T> Sequence<T>.drop(n: Int):
    Sequence<T> {
    \n     require(n >= 0) {
    \n         "Requested element count $n is less than
    zero."
    \n     }
    \n     return when {
    \n         n == 0 -> this
    \n         this is DropTakeSequence -> this.drop(n)
    \n         else ->
    DropSequence(this, n)
    \n     }
    \n }
    \n * Returns a sequence containing all elements except first elements that
    satisfy the given [predicate].
    * The operation is
    _intermediate_ and _stateless_
    * \n * \n * @sample
    samples.collections.Collections.Transformations.drop
    * \n public fun <T> Sequence<T>.dropWhile(predicate: (T)
    -> Boolean): Sequence<T> {
    \n     return DropWhileSequence(this, predicate)
    \n }
    \n * Returns a sequence
    containing only elements matching the given [predicate].
    * The operation is
    _intermediate_ and _stateless_
    * \n public fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {
    \n     return
    FilteringSequence(this, true, predicate)
    \n }
    \n * Returns a sequence containing only elements matching the
    given [predicate].
    * @param [predicate] function that takes the index of an element and the element itself
    * and
    returns
    the result of predicate evaluation on the element.
    * The operation is
    _intermediate_ and _stateless_
    * \n public 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 * Appends all elements matching the given [predicate] to the given [destination].
    * @param
    [predicate] function that takes the index of an element and the element itself
    * and returns the result of predicate
    evaluation on the element.
    * The operation is
    _terminal_
    * \n public 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 * Returns a
    sequence containing all elements that are instances of specified type parameter R.
    * The operation is
    _intermediate_ and _stateless_
    * \n public 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 * Appends all elements that are instances of specified type parameter R to the given
    [destination].
    * The operation is
    _terminal_
    * \n public 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 * Returns a sequence containing all elements not
    matching the given [predicate].
    * The operation is
    _intermediate_ and _stateless_
    * \n public fun <T>
    Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {
    \n     return FilteringSequence(this, false,
    predicate)
    \n }
    \n * Returns
    a sequence containing all elements that are not `null`.
    * The operation is
    _intermediate_ and _stateless_
    * \n public fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {
    \n
    @Suppress("UNCHECKED_CAST")
    \n     return filterNot { it == null } as Sequence<T>
    \n }
    \n * Appends all
    elements that are not `null` to the given [destination].
    * The operation is
    _terminal_
    * \n public 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 * Appends all elements not matching

```

the given [predicate] to the given [destination].
`\n * \n * The operation is _terminal_. \n * \n public 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 * Appends all elements matching`

the given [predicate] to the given [destination].
`\n * \n * The operation is _terminal_. \n * \n public 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 * 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 * \n public 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 * 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 * \n public fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> { \n return TakeWhileSequence(this, predicate) \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 * \n public 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 return sortedList.iterator() \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 public inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> { \n return sortedWith(compareBy(selector)) \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 * \n public inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> { \n return sortedWith(compareByDescending(selector)) \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 * \n public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> { \n return sortedWith(reverseOrder()) \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 * \n public 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 * 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 * \n public 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 * 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.

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    * The operation is _terminal_.
    * @sample samples.collections.Collections.Transformations.associateBy
    * ^\npublic inline fun <T, K>
    Sequence<T>.associateBy(keySelector:
    (T) -> K): Map<K, T> {
    \n    return associateByTo(LinkedHashMap<K, T>(), keySelector)\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 * If any two elements would have the same key returned by [keySelector] the
    last one gets added to the map.
    * \n * The returned map preserves the entry iteration order of the original
    sequence.
    * \n * The operation is _terminal_.
    * \n * @sample
    samples.collections.Collections.Transformations.associateByWithValueTransform
    * ^\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/**
    * 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 * If any two elements would have the same key returned by [keySelector] the
    last one gets added to the map.
    * \n * The operation is _terminal_.
    * \n * @sample
    samples.collections.Collections.Transformations.associateByTo
    * ^\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/**
    * 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 * If any two
    elements would have the same key returned by [keySelector] the last one gets added to the map.
    * \n * The
    operation is _terminal_.
    * \n * @sample
    samples.collections.Collections.Transformations.associateByToWithValueTransform
    * ^\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/**
    * 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 * If any of two pairs would have the same key the last one gets added to the
    map.
    * \n * The operation is _terminal_.
    * \n * @sample
    samples.collections.Collections.Transformations.associateTo
    * ^\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/**
    * 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 * If any two elements are equal, the
    last one gets added to the map.
    * \n * The returned map preserves the entry iteration order of the original
    sequence.
    * \n * The operation is _terminal_.
    * \n * @sample
    samples.collections.Collections.Transformations.associateWith
    * ^\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/**
    * 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 * If any two elements are equal, the last one
    overwrites the former value in the map.
    * \n * The operation is _terminal_.
    * \n * @sample
    samples.collections.Collections.Transformations.associateWithTo
    * ^\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/**
    * Appends all elements to
    the given [destination] collection.
    * \n * The operation is _terminal_.
    * \n * ^\npublic fun <T, C :
    MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {
    \n    for (item in this) {

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destination.add(item)\n } \n return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n *\n * The operation is _terminal_.\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 */\npublic fun <T> Sequence<T>.toList(): List<T> {\n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this sequence.\n *\n * The operation is _terminal_.\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 * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\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 */\npublic fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n return FlatteningSequence(this, transform, { it.iterator() })\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 */\npublic 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 * 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 */\npublic 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 * 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 */\npublic 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 * Groups elements 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

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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 * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n * \n * @SinceKotlin("1.1")\n * public 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 * Returns a sequence containing the results of applying the given [transform] function\n * to each element in the original sequence.\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n * return TransformingSequence(this, transform)\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 * @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 * \n * public fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n * return TransformingIndexedSequence(this, transform)\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 * @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 * \n * public fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n * return TransformingIndexedSequence(this, transform).filterNotNull()\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 * @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 * \n * public 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 * 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 * @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 * \n * public 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 * 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 * public fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n * return TransformingSequence(this, transform).filterNotNull()\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 * public 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 * 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 * public 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 * 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 * public fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n

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return IndexingSequence(this)\n\n\n/**\n * Returns a sequence containing only distinct elements from the given
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 * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T>
Sequence<T>.distinct(): Sequence<T> {\n    return this.distinctBy { it }\n}\n\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 * 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 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T, K>
Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n    return DistinctSequence(this, selector)\n}\n\n\n/**\n * Returns a mutable set 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 */\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/**\n * Returns `true` if all elements match the given [predicate].\n *\n * The
operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun
<T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return
false\n    return true\n}\n\n\n/**\n * Returns `true` if sequence has at least one element.\n *\n *
The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun
<T> Sequence<T>.any(): Boolean {\n    return iterator().hasNext()\n}\n\n\n/**\n * Returns `true` if at least one
element matches the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T>
Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is
_terminal_.\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/**\n * Returns the number of elements matching the given
[predicate].\n *\n * The operation is _terminal_.\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/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right to current accumulator value and each
element.\n *\n * The operation is _terminal_.\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/**\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 * @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 _terminal_.\n */\npublic inline fun
<T, R> Sequence<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/**\n * Performs the
given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.forEach(action: (T) -> Unit): Unit {\n    for (element in this) action(element)\n}\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 desired action on the element.\n *\n * The
operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(checkIndexOverflow(index++), item)\n}\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("1.1")\npublic fun Sequence<Double>.max(): Double? {\n    val
iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN())
return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (max <

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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 * The operation is _terminal_.\n * \n * @SinceKotlin("1.1")\n\npublic
fun Sequence<Float>.max(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max =
iterator.next()\n    if (max.isNaN()) return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if
(e.isNaN()) return e\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 * The operation is _terminal_.\n * \n * @public fun <T : Comparable<T>> Sequence<T>.max(): 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/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n *\n * The operation is
_terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n * \n * @public inline fun <T, R :
Comparable<R>> Sequence<T>.maxBy(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 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 * @public fun <T> Sequence<T>.maxWith(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/**\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("1.1")\n\npublic fun Sequence<Double>.min(): Double? {\n    val
iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return
min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\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 * The operation
is _terminal_.\n * \n * @SinceKotlin("1.1")\n\npublic fun Sequence<Float>.min(): Float? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\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 * The operation
is _terminal_.\n * \n * @public fun <T : Comparable<T>> Sequence<T>.min(): 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/**\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 * @sample
samples.collections.Collections.Aggregates.minBy\n * \n * @public inline fun <T, R : Comparable<R>>
Sequence<T>.minBy(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 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 * @public fun <T> Sequence<T>.minWith(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 *
@sample samples.collections.Collections.Aggregates.none\n * \n * @public 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

```



```

*public inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

* Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.
* The operation is _intermediate_ and _stateless_.

@SinceKotlin("1.1")
public fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {
    return map { it, action(it) }
}

* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
* The operation is _terminal_.

@sample samples.collections.Collections.Aggregates.reduce
*public inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    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 sequence.
* @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_.

@sample samples.collections.Collections.Aggregates.reduce
*public inline fun <S, T : S> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")
    var index = 1
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
    }
    return accumulator
}

* 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 sequence is empty.
* The operation is _terminal_.

@sample samples.collections.Collections.Aggregates.reduceOrNull
*public inline fun <S, T : S> Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

* Returns a sequence 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 sequence.
* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
* The operation is _intermediate_ and _stateless_.

@sample samples.collections.Collections.Aggregates.scan
*public inline fun <T, R> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var accumulator = initial
        for (element in this@scan) {
            accumulator = operation(accumulator, element)
            yield(accumulator)
        }
    }
}

* Returns a sequence containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original sequence 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 sequence.
* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
* @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 _intermediate_ and _stateless_.

@sample samples.collections.Collections.Aggregates.scan
*public inline fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var index = 0
        var accumulator = initial
        for (element in this@scanIndexed) {
            accumulator = operation(checkIndexOverflow(index++), accumulator, element)
        }
    }
}

```

```

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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <S, T : S> Sequence<T>.scanReduce(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                yield(accumulator)\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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <S, T : S>
Sequence<T>.scanReduceIndexed(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                yield(accumulator)\n            }\n
        }\n    }\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@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@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 an original
collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null`
elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n@public fun <T : Any>
Sequence<T?>.requireNonNulls(): Sequence<T> {\n    return map { it ?: throw IllegalArgumentException("null
element found in $this.") }\n}\n\n/**\n * Splits this sequence into a sequence of lists each not exceeding the given
[size].\n * \n * The last list in the resulting sequence may have less 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 sequence.\n * \n * The operation is _intermediate_ and _stateful_.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n
*\n@SinceKotlin("1.2")\n@public fun <T>
Sequence<T>.chunked(size:
Int): Sequence<List<T>> {\n    return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this
sequence into several lists 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 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 less 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 sequence.\n * \n * The operation is _intermediate_ and _stateful_.\n * \n * @sample
samples.text.Strings.chunkedTransform\n
*\n@SinceKotlin("1.2")\n@public fun <T, R>
Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n    return windowed(size, size,

```

partialWindows = true, transform = transform)\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n * The operation is `_intermediate_` and `_stateless_`.\n */\npublic operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n var removed = false\n return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.\n * 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.\n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n * The operation is `_intermediate_` and `_stateful_`.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {\n if (elements.isEmpty()) return this\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.toHashSet()\n return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.\n * 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.\n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n * The operation is `_intermediate_` and `_stateful_`.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.convertToSetForSetOperation()\n if (other.isEmpty()) return this@minus.iterator()\n else return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence.\n * 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.\n * The operation is `_intermediate_` for this sequence and `_terminal_` and `_stateful_` for the [elements] sequence.\n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.toHashSet()\n if (other.isEmpty()) return this@minus.iterator()\n else return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n * The operation is `_intermediate_` and `_stateless_`.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {\n return minus(element)\n}\n\n/**\n * 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_`.
*/\npublic inline fun <T> Sequence<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 * Returns a sequence containing all elements of the original sequence and then the given [element].
The operation is `_intermediate_` and `_stateless_`.
*/\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * 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.

`Sequence<T>.plus(elements: Array<out T>): Sequence<T>` {
return this.plus(elements.asList())
} Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection. Note that the source sequence and the collection 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.

`Sequence<T>.plus(elements: Iterable<T>): Sequence<T>` {
return sequenceOf(this, elements.asSequence()).flatten()
} Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence. Note that the source sequence and the sequence 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.

`Sequence<T>.plus(element: T): Sequence<T>` {
return plus(element)
} Returns a sequence of snapshots of the window of the given [size] sliding along this sequence with the given [step], where each snapshot is a list. Several last lists may have less elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this sequence. @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

`Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>>` {
return windowedSequence(size, step, partialWindows, reuseBuffer = false)
} Returns a sequence 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 sequence 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 less elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this sequence. @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

`Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R>` {
return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)
} Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index. The resulting sequence ends as soon as the shortest input sequence ends. The operation is _intermediate_ and _stateless_. @sample
samples.collections.Sequences.Transformations.zip

`Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>>` {
return MergingSequence(this, other) { t1, t2 -> t1 to t2 }
} Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index using the provided [transform] function applied to each pair of elements. The resulting sequence ends as soon as the shortest input sequence ends. The operation is _intermediate_ and _stateless_. @sample
samples.collections.Sequences.Transformations.zipWithTransform

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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 *\npublic 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 *\npublic 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\npublic 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")\npublic 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")\npublic 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")\npublic fun Sequence<Int>.average(): Double {\n  var sum: Double

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= 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")\npublic 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")\npublic 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
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-
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@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\n/\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)
{\n if (!removed && it == element) {\n removed = true; false\n } else true\n }\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 * The [elements] array may be converted to a
[HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation
of `hashCode()` that doesn't change between successive invocations.\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 * The [elements] collection may be converted to a [HashSet]

```

to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

```

public operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {
    val other = elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty()) return this.toSet()
    if (other is Set) return this.filterNotTo(LinkedHashSet<T>()) { it in other }
    val result = LinkedHashSet<T>(this)
    result.removeAll(other)
    return result
}

```

* Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence. The returned set preserves the element iteration order of the original set. The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

```

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
import 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

```

* 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

```

* 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.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

```

```

samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.elementAtOrNull(index: Int): Char? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first
character matching the given [predicate], or `null` if no such character was found.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no
such character was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun 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 CharSequence.first(): Char {\n    if
(isEmpty())\n        throw NoSuchElementException("Char sequence is empty.")\n    return this[0]\n}\n\n/**\n *
Returns
the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is
found.\n */\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Char sequence contains no character
matching the predicate.")\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is empty.\n
*/\npublic fun CharSequence.firstOrNull(): Char? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns
the first character matching the given [predicate], or `null` if character was not found.\n */\npublic inline fun
CharSequence.firstOrNull(predicate: (Char) -> 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 bounds of this char sequence.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrNull(index: Int, default: Char): Char {\n
return if (index >= 0 && index <= lastIndex) get(index) else default\n}\n\n/**\n * Returns a
character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n */\npublic fun
CharSequence.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does
not 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\n return -
1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does
not 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 -1\n}\n\n/**\n * Returns the last character.\n * @throws [NoSuchElementException]
if the char sequence is empty.\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 last
character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n
*/\npublic inline fun CharSequence.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("Char sequence contains no character matching the predicate.")\n}\n\n/**\n *
Returns the last character, or `null` if the char sequence is empty.\n */\npublic
fun CharSequence.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[lastIndex]\n}\n\n/**\n * Returns the
last character matching the given [predicate], or `null` if no such character was found.\n */\npublic inline fun
CharSequence.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 character from this char sequence.\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 * @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 *^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
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 *^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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
*^@public 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 *^@public 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 *^@public 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 *^@public 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 *^@public 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 *^@public 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 *^@public 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 *^@public 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 *^@public 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 * @sample samples.text.Strings.drop\n *^@public inline fun
String.dropLastWhile(predicate: (Char) -> Boolean): String {\n    for (index in lastIndex downTo 0)\n        if
(!predicate(this[index]))\n            return 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 *^@public 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 *^@public inline fun

```

```

String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}

Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].

public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
    return filterTo(StringBuilder(), predicate)
}

Returns a string containing only those characters from the original string that match the given [predicate].

public inline fun String.filter(predicate: (Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate).toString()
}

Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].

@param [predicate] function that takes the index of a character and the character itself
and returns the result of predicate evaluation on the character.

public inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {
    return filterIndexedTo(StringBuilder(), predicate)
}

Returns a string containing only those characters from the original string that match the given [predicate].

@param [predicate] function that takes the index of a character and the character itself
and returns the result of predicate evaluation on the character.

public inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {
    return filterIndexedTo(StringBuilder(), predicate).toString()
}

Appends all characters matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of a character and the character itself
and returns the result of predicate evaluation on the character.

public inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.append(element)
    }
    return destination
}

Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].

public inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {
    return filterNotTo(StringBuilder(), predicate)
}

Returns a string containing only those characters from the original string that do not match the given [predicate].

public inline fun String.filterNot(predicate: (Char) -> Boolean): String {
    return filterNotTo(StringBuilder(), predicate).toString()
}

Appends all characters not matching the given [predicate] to the given [destination].

public inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this)
        if (!predicate(element))
            destination.append(element)
    return destination
}

Appends all characters matching the given [predicate] to the given [destination].

public inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (index in 0 until length) {
        val element = get(index)
        if (predicate(element))
            destination.append(element)
    }
    return destination
}

Returns a char sequence containing characters of the original char sequence at the specified range of [indices].

public fun CharSequence.slice(indices: IntRange): CharSequence {
    if (indices.isEmpty())
        return ""
    return subSequence(indices)
}

Returns a string containing characters of the original string at the specified range of [indices].

public fun String.slice(indices: IntRange): String {
    if (indices.isEmpty())
        return ""
    return substring(indices)
}

Returns a char sequence containing characters of the original char sequence at specified [indices].

public fun CharSequence.slice(indices: Iterable<Int>): CharSequence {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0)
        return ""
    val result = StringBuilder(size)
    for (i in indices)
        result.append(get(i))
    return result
}

Returns a string containing characters of the original string at specified [indices].

@kotlin.internal
public inline fun String.slice(indices: Iterable<Int>): String {
    return (this as CharSequence).slice(indices).toString()
}

Returns a subsequence of this char sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.

@throws IllegalArgumentException if [n] is negative.

@sample samples.text.Strings.take

public fun CharSequence.take(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(0, n.coerceAtMost(length))
}

Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.

@throws IllegalArgumentException if

```

[n] is negative.

```

\n * \n * @sample samples.text.Strings.take\n *
\npublic fun String.take(n: Int): String {\n  require(n >= 0) {\n    \"Requested character count $n is less than zero.\"\n  }\n  return substring(0, n.coerceAtMost(length))\n}
\n\n/**
\n * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
\n * \n * @throws IllegalArgumentException if [n] is negative.
\n * \n * @sample samples.text.Strings.take\n *
\npublic fun CharSequence.takeLast(n: Int): CharSequence {\n  require(n >= 0) {\n    \"Requested character count $n is less than zero.\"\n  }\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 * @throws IllegalArgumentException if [n] is negative.
\n * \n * @sample samples.text.Strings.take\n *
\npublic fun String.takeLast(n: Int): String {\n  require(n >= 0) {\n    \"Requested character count $n is less than zero.\"\n  }\n  val length = length\n  return substring(length - n.coerceAtMost(length))\n}
\n\n/**
\n * Returns a subsequence of this char sequence containing last characters that satisfy the given [predicate].
\n * \n * @sample samples.text.Strings.take\n *
\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n    return subSequence(index + 1, length)\n  }\n  return subSequence(0, length)\n}
\n\n/**
\n * Returns a string containing last characters that satisfy the given [predicate].
\n * \n * @sample samples.text.Strings.take\n *
\npublic inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n    return substring(index + 1)\n  }\n  return this\n}
\n\n/**
\n * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].
\n * \n * @sample samples.text.Strings.take\n *
\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {\n  for (index in 0 until length)\n  if (!predicate(get(index)))\n  return subSequence(0, index)\n  return subSequence(0, length)\n}
\n\n/**
\n * Returns a string containing the first characters that satisfy the given [predicate].
\n * \n * @sample samples.text.Strings.take\n *
\npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String {\n  for (index in 0 until length)\n  if (!predicate(get(index)))\n  return substring(0, index)\n  return this\n}
\n\n/**
\n * Returns a char sequence with characters in reversed order.
\n * \npublic fun CharSequence.reversed(): CharSequence {\n  return StringBuilder(this).reverse()\n}
\n\n/**
\n * Returns a string with characters in reversed order.
\n * \n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n  return (this as CharSequence).reversed().toString()\n}
\n\n/**
\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to characters 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 * The returned map preserves the entry iteration order of the original char sequence.
\n * \n * @sample samples.text.Strings.associate\n *
\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n  val capacity = mapCapacity(length).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}
\n\n/**
\n * Returns a [Map] containing the characters from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each character.
\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.associateBy\n *
\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n  val capacity = 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).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.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n } \n return destination\n}\n\n/**\n * Returns a [HashSet] of all characters.\n *^\npublic
fun CharSequence.toHashSet(): HashSet<Char> {\n return
toCollection(HashSet<Char>(mapCapacity(length)))\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 [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
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)))\n } \n}\n\n/**\n
* Returns a single list of all elements yielded from results of [transform] function being invoked on each character of
original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n *^\npublic
inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<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 character of original char sequence, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> CharSequence.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}\n\n/**\n * Groups characters of the original char sequence by
the key returned by the given [keySelector] function\n * applied to each character and returns a map where each
group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
CharSequence.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 character of the original char sequence\n * by the key returned by the
given [keySelector] function applied to the character\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 char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V>
CharSequence.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
characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each
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 samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.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 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 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 */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> 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 char sequence to be used later with one of group-and-fold operations\n *
using the specified [keySelector] function to extract a key from each character.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <K>
CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n    return object :
Grouping<Char, K> {\n        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n
override fun keyOf(element: Char): K = keySelector(element)\n    }\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n *
@sample samples.text.Strings.map\n */\npublic inline fun <R> CharSequence.map(transform: (Char) -> R):
List<R> {\n    return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform]
function\n * to each character and its index in the original char sequence.\n * @param [transform] function that
takes the index of a character and the character itself\n * and returns the result of the transform applied to the
character.\n */\npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing only the non-null
results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n
* @param [transform] function that takes the index of a character and the character itself\n * 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.

```

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 samples.collections.Collections.Aggregates.any

```

public fun CharSequence.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if at least one character matches the given [predicate].

@sample samples.collections.Collections.Aggregates.anyWithPredicate

```

public inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

```

Returns the length of this char sequence.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.count(): Int {
    return length
}

```

Returns the number of characters matching the given [predicate].

```

public inline fun CharSequence.count(predicate: (Char) -> 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 character.

```

public inline fun <R>
CharSequence.fold(initial: R, operation: (acc: R, Char) -> 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 character with its index in the original char sequence.

@param [operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value.

```

public inline fun <R>

```

```

CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> 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 right to left to each character and current accumulator value.
 *
 * public inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
/** Accumulates value starting with [initial] value and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value.
 *
 * @param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.
 *
 * public inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}
/** Performs the given [action] on each character.
 *
 * public inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}
/** Performs the given [action] on each character, providing sequential index with the character.
 *
 * @param [action] function that takes the index of a character and the character itself and performs the desired action on the character.
 *
 * public inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}
/** Returns the largest character or `null` if there are no characters.
 *
 * public fun CharSequence.max(): 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
}
/** Returns the first character yielding the largest value of the given function or `null` if there are no characters.
 *
 * @sample
samples.collections.Collections.Aggregates.maxBy
 *
 * public inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
/** Returns the first character having the largest value according to the provided [comparator] or `null` if there are no characters.
 *
 * public fun CharSequence.maxWith(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
}
/** Returns the smallest character or `null` if there are no characters.
 *
 * public fun CharSequence.min(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
/** Returns the first character yielding the smallest value of the given function or `null` if there are no characters.
 *
 * @sample
samples.collections.Collections.Aggregates.minBy
 *
 * public inline fun <R : Comparable<R>> CharSequence.minBy(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 first character having the smallest value according to the provided [comparator] or `null` if there are no characters.
 *
 * public fun CharSequence.minWith(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
/** Returns `true` if the char sequence has no characters.
 *
 * @sample
samples.collections.Collections.Aggregates.none
 *
 * public fun CharSequence.none(): Boolean {
    return isEmpty()
}
/** Returns `true` if no characters match the given [predicate].
 *
 * @sample
samples.collections.Collections.Aggregates.noneWithPredicate
 *
 * public inline fun CharSequence.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}
/** Performs the given [action] on each character and returns the char sequence itself afterwards.
 *
 * @since Kotlin("1.1")
 *
 * public inline fun <S : CharSequence>

```



```

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\n [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator\n value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be\n mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that\n takes the index of a character, current accumulator value\n * and the character itself, and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <R> CharSequence.scanIndexed(initial: R,\noperation: (index: Int, acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val\n    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\n    result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from\n left to right\n * to each character and current accumulator value that starts with the first character of this char\n sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would\n affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value\n and a character, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.scanReduce\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun CharSequence.scanReduce(operation: (acc:\nChar, Char) -> Char): List<Char> {\n    if (isEmpty())\n    return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply { add(accumulator)\n}\n    for (index in 1 until length) {\n        accumulator = operation(accumulator, this[index])\n    }\n    result.add(accumulator)\n}\n\n/**\n * Returns a list containing successive accumulation\n values generated by applying [operation] from left to right\n * to each character, its index in the original char\n sequence and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that\n `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in\n 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\n samples.collections.Collections.Aggregates.scanReduce\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic\n\ninline fun CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n    if\n    (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply {\n    add(accumulator) }\n    for (index in 1 until length) {\n        accumulator = operation(index, accumulator,\nthis[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns the sum of all values\n produced by [selector] function applied to each character in the char sequence.\n */\n@public inline fun\nCharSequence.sumBy(selector: (Char) -> 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 character in the char sequence.\n */\n@public inline fun CharSequence.sumByDouble(selector: (Char)\n-> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum +=\n        selector(element)\n    }\n    return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not\n exceeding the given [size].\n * \n * The last string in the resulting list may have less characters than the given\n [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than\n the number of elements in this char sequence.\n * \n * @sample\n samples.collections.Collections.Transformations.chunked\n\n*/\n@SinceKotlin("1.2")\n@public fun\nCharSequence.chunked(size: Int): List<String> {\n    return windowed(size, size, partialWindows =\ntrue)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and\n applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an\n 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 less 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")\n * public fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n * return windowed(size, size, partialWindows = true, transform = transform)\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 less 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")\n * public fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n * return chunkedSequence(size) { it.toString() }\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 less 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")\n * public fun <R> CharSequence.chunkedSequence(size:

Int, transform: (CharSequence) -> R): Sequence<R> {\n * return windowedSequence(size, size, partialWindows = true, transform = transform)\n * }\n * \n * Splits the original char sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n * \n * public inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n * val first = StringBuilder()\n * val second =\n * StringBuilder()\n * for (element in this) {\n * if (predicate(element))\n * first.append(element)\n * else\n * second.append(element)\n * }\n * return Pair(first, second)\n * }\n * \n * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second* string contains characters for which

[predicate] yielded `false`.\n * \n * public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n * val first = StringBuilder()\n * val second = StringBuilder()\n * for (element in this) {\n * if (predicate(element))\n * first.append(element)\n * else\n * second.append(element)\n * }\n * return Pair(first.toString(), second.toString())\n * }\n * \n * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less 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 * \n * @param size the number of elements to take in each window\n * \n * @param step the number of elements to move the window forward by on an each step, by default 1\n * \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")\n * public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n * return windowed(size, step, partialWindows) { it.toString() }\n * }\n * \n * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\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 * Several last char sequences may have less 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")\npublic fun <R>
CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R):
List<R> {\n    checkWindowSizeStep(size, step)\n    val thisSize = this.length\n    val resultCapacity = thisSize / step
+ if (thisSize % step == 0) 0 else 1\n    val result = ArrayList<R>(resultCapacity)\n    var index = 0\n    while (index
in 0 until thisSize) {\n        val end = index + size\n        val coercedEnd = if (end < 0 || end > thisSize) { if
(partialWindows) thisSize else break } else
end\n        result.add(transform(subSequence(index, coercedEnd)))\n        index += step\n    }\n    return
result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char
sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less
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.takeWindows\n
*/\n@SinceKotlin("1.2")\npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows:
Boolean = false): Sequence<String> {\n    return windowedSequence(size, step, partialWindows) { it.toString()
}\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char
sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given
[step].\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 *
Several last char sequences may have less 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")\npublic 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/**\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 */\npublic infix fun CharSequence.zip(other: CharSequence):
List<Pair<Char, Char>>
{\n    return zip(other) { c1, c2 -> c1 to c2 }\n}\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 */\npublic 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/**\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")\npublic fun
CharSequence.zipWithNext():

```



```

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
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
String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this
char sequence having trailing whitespace removed.\n * \npublic fun CharSequence.trimEnd(): CharSequence =
trimEnd(Char::isWhitespace)\n\n/**\n * Returns a
string having trailing whitespace removed.\n * \n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd():
String = (this as CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char
sequence padded at the beginning\n * to the specified [length] 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 than the
[length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length]
consisting of `this` char sequence prepended with [padChar] as many times\n * as are necessary to reach that
length.\n * @sample samples.text.Strings.padStart\n * \npublic fun CharSequence.padStart(length: Int, padChar:
Char = ' '): CharSequence {\n    if (length < 0)\n        throw IllegalArgumentException("Desired length $length is
less than zero.")\n    if (length <= this.length)\n        return this.subSequence(0, this.length)\n\n    val sb =
StringBuilder(length)\n    for (i in 1..(length - this.length))\n        sb.append(padChar)\n    sb.append(this)\n    return sb\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 than the [length] specified. Space is used by default.\n * @return Returns a
string of length at least [length] consisting of `this` string prepended with [padChar] as many times\n * as are
necessary to reach that length.\n * @sample 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 char sequence padded at the end\n * to the specified [length] 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 than the [length] specified. Space is used by
default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence appended
with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n
* \npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\n    if (length < 0)\n        throw
IllegalArgumentException("Desired length $length is less than zero.")\n    if (length <= this.length)\n        return
this.subSequence(0, this.length)\n\n    val sb = StringBuilder(length)\n    sb.append(this)\n    for (i in
1..(length - this.length))\n        sb.append(padChar)\n    return sb\n}\n\n/**\n * Pads the string to the specified
[length] at the end 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
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n *
@sample 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
either `null` or empty.\n * \n * @sample samples.text.Strings.stringIsNullOrEmpty\n
* \n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\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
samples.text.Strings.stringIsEmpty\n * \n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty():
Boolean = length ==
0\n\n/**\n * Returns `true` if this char sequence is not empty.\n * \n * @sample
samples.text.Strings.stringIsNotEmpty\n * \n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//public fun

```

String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }
Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.

`@sample`
samples.text.Strings.stringIsNotBlank

CharSequence.isNotBlank(): Boolean = !isBlank()
Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.

`@sample`
samples.text.Strings.stringIsNullOrBlank

CharSequence?.isNullOrBlank(): Boolean {
contract {
returns(false) implies (this@isNullOrBlank != null)
}
return
this == null || this.isBlank()
}
Returns an iterator for characters of the given char sequence.

`@public operator fun`
CharSequence.iterator(): CharIterator = object : CharIterator() {
private var index = 0
public override fun nextChar(): Char = get(index++)
public override fun hasNext(): Boolean = index < length
}
Returns the string if it is not `null`, or the empty string otherwise.

`@kotlin.internal.InlineOnly`
`@public inline fun`
String?.orEmpty(): String = this ?: ""
Returns this char sequence if it's not empty or the result of calling [defaultValue] function if the char sequence is empty.

`@sample`
samples.text.Strings.stringIfEmpty

`@kotlin.SinceKotlin("1.3")`
`@kotlin.internal.InlineOnly`
`@public inline fun`
<C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =
if (isEmpty()) defaultValue() else this
Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters, or the result of calling [defaultValue] function otherwise.

`@sample`
samples.text.Strings.stringIfBlank

`@kotlin.SinceKotlin("1.3")`
`@kotlin.internal.InlineOnly`
`@public inline fun`
<C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =
if (isBlank()) defaultValue() else this
Returns the range of valid character indices for this char sequence.

`@public val`
CharSequence.indices: IntRange
get() = 0..length - 1
Returns the index of the last character in the char sequence or -1 if it is empty.

`@public val`
CharSequence.lastIndex: Int
get() = this.length - 1
Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].

`@public fun`
CharSequence.hasSurrogatePairAt(index: Int): Boolean {
return index in 0..length - 2 &&
this[index].isHighSurrogate() && this[index + 1].isLowSurrogate()
}
Returns a substring specified by the given [range] of indices.

`@public fun`
String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)
Returns a subsequence of this char sequence specified by the given [range] of indices.

`@public fun`
CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)
Returns a subsequence of this char sequence.

This extension is chosen only for invocation with old-named parameters. Replace parameter names with the same as those of [CharSequence.subSequence].

`@kotlin.internal.InlineOnly`
`@Suppress("EXTENSION_SHADOWED_BY_MEMBER")` // false
`warning`
`@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex = start, endIndex = end)"))`
`@public inline fun`
String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)
Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].

`@param` startIndex the start index (inclusive).
`@param` endIndex the end index (exclusive). If not specified, the length of the char sequence is used.

`@kotlin.internal.InlineOnly`
`@public inline fun`
CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()
Returns a substring of chars at indices from the specified [range] of this char sequence.

`@public fun`
CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()
Returns a substring before the first occurrence of [delimiter].
If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

`@public fun`
String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {
val index = indexOf(delimiter)
return if (index == -1) missingDelimiterValue else substring(0,

index)\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 */\npublic 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 */\n@UseExperimental(ExperimentalStdlibApi::class)\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 * * The end index of the [range] is included in the part to be replaced.\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 * * The end index of the [range] is included in the part to be replaced.\n */\n@kotlin.internal.InlineOnly\npublic 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 startIndex

the index of the first character to be removed.\n * @param endIndex 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@UseExperimental(ExperimentalStdlibApi::class)\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 startIndex the index of the first character to be removed.\n * @param endIndex 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\npublic 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 * The end index of
the [range] is included in the removed part.\n */\npublic fun CharSequence.removeRange(range: IntRange):
CharSequence = removeRange(range.start, range.endInclusive + 1)\n\n/**\n * Removes the part of a string at the
given [range].\n * The end index of the [range] is included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String =\n    (this as
CharSequence).removeRange(range).toString()\n\n    * If this char sequence starts with the given [prefix], returns a new char sequence\n * with the prefix removed.
Otherwise, returns a new char sequence with the same characters.\n */\npublic fun
CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n    if (startsWith(prefix)) {\n        return
subSequence(prefix.length, length)\n    }\n    return subSequence(0, length)\n}\n\n/**\n * If this string starts with the
given [prefix], returns a copy of this string\n * with the prefix removed. Otherwise, returns this string.\n */\npublic
fun String.removePrefix(prefix: CharSequence): String {\n    if (startsWith(prefix)) {\n        return
substring(prefix.length)\n    }\n    return this\n}\n\n/**\n * If this char sequence ends with the given [suffix], returns
a new char sequence\n * with the suffix removed. Otherwise, returns a new char sequence with the same
characters.\n */\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence
{\n    if (endsWith(suffix)) {\n        return subSequence(0, length - suffix.length)\n    }\n    return subSequence(0,
length)\n}\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix
removed. Otherwise, returns this string.\n */\npublic fun String.removeSuffix(suffix: CharSequence): String {\n    if
(endsWith(suffix)) {\n        return substring(0, length - suffix.length)\n    }\n    return this\n}\n\n/**\n * When this
char sequence starts with the given [prefix] and ends with the given [suffix],\n * returns a new char sequence having
both the given [prefix] and [suffix] removed.\n * Otherwise returns a new char sequence with the same characters.\n */\n@kotlin.internal.InlineOnly\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\n    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n        return
subSequence(prefix.length, length - suffix.length)\n    }\n    return subSequence(0, length)\n}\n\n/**\n * Removes from a string both the given [prefix] and [suffix] if and
only if\n * it starts with the [prefix] and ends with the [suffix].\n * Otherwise returns this string unchanged.\n */\n@kotlin.internal.InlineOnly\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n        return substring(prefix.length,
length - suffix.length)\n    }\n    return this\n}\n\n/**\n * When this char sequence starts with and ends with the
given [delimiter],\n * returns a new char sequence having this [delimiter] removed both from the start and end.\n *
Otherwise returns a new char sequence with the same characters.\n */\n@kotlin.internal.InlineOnly\npublic fun
CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter,
delimiter)\n\n/**\n * Removes the given [delimiter] string from both the start and the end of this string\n * if and
only if it
starts with and ends with the [delimiter].\n * Otherwise returns this string unchanged.\n */\n@kotlin.internal.InlineOnly\npublic fun
String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n\n/**\n * Replace part of string before the first 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.

```

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 {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)
}

```

Replace part of string after the last 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.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)
}

```

Replace part of string after the last 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.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)
}

```

Replace part of string before the last 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.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

```

Replace part of string before the last 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.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

```

public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific

public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific

Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression with the given [replacement].

The [replacement] can consist of any combination of literal text and \$-substitutions. To treat the replacement string literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)

```

Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a replacement for that match.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String = regex.replace(this, transform)

```

Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.

```

*\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement:
String): String = regex.replaceFirst(this, replacement)\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 * 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 * 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 * @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\n for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n    val charAtIndex = get(index)\n    if\n(chars.any { it.equals(charAtIndex, ignoreCase) })\n        return index\n    }\n    return -1\n}\n\n/**\n * Finds the\n index of the last occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified\n [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search\n proceeds backward toward the beginning of the string.\n *\n * @param ignoreCase `true` to ignore character\n case when matching a character. By default `false`.\n *\n * @return An index of the last occurrence of matched\n character from [chars] or -1 if none of [chars] are found.\n *\n */\npublic fun CharSequence.lastIndexOfAny(chars:\n CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1\n && this is String) {\n        val char = chars.single()\n        return\n        nativeLastIndexOf(char, startIndex)\n    }\n\n    for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n        val charAtIndex = get(index)\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\n            return index\n    }\n\n    return -1\n}\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int,\n ignoreCase: Boolean, last: Boolean = false): Int {\n    val indices = if (!last)\n        startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n    else\n        startIndex.coerceAtMost(lastIndex)\n        downTo endIndex.coerceAtLeast(0)\n\n    if (this is String && other is String) { // smart cast\n        for (index in\n indices) {\n            if (other.regionMatches(0, this, index, other.length, ignoreCase))\n                return index\n        }\n    } else {\n        for (index in indices) {\n            if (other.regionMatchesImpl(0, this, index, other.length,\n ignoreCase))\n                return index\n        }\n    }\n\n    return\n    -1\n}\n\nprivate fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean,\n last: Boolean): Pair<Int, String>? {\n    if (!ignoreCase && strings.size == 1) {\n        val string = strings.single()\n        val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)\n        return if (index < 0) null\n        else index to string\n    }\n\n    val indices = if (!last) startIndex.coerceAtLeast(0)..length else\n        startIndex.coerceAtMost(lastIndex) downTo 0\n\n    if (this is String) {\n        for (index in indices) {\n            val\n matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n            if\n (matchingString != null)\n                return index to matchingString\n        }\n    } else {\n        for (index in indices)\n {\n            val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n            if\n (matchingString != null)\n                return index to matchingString\n        }\n    }\n\n    return null\n}\n\n/**\n * Finds the first occurrence of\n any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally\n ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default\n `false`.\n *\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string\n matched\n * or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings]\n have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each\n position the first element in [strings]\n * that matches this string at that position.\n *\n */\npublic fun\n CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int,\n String>? =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)\n\n/**\n * Finds\n the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex]\n and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search\n proceeds backward toward the beginning of the string.\n *\n * @param ignoreCase `true` to ignore character case when\n matching a string. By default `false`.\n *\n * @return A pair of an index of the last occurrence of matched string from\n [strings] and the string matched or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when\n strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this\n string, and finds at each position the first element\n in [strings]\n * that matches this string at that position.\n *\n */\npublic fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase:\n Boolean = false): Pair<Int, String>? =\n    findAnyOf(strings, startIndex,\n ignoreCase, last = true)\n\n/**\n * Finds the index of the first occurrence of any of the specified [strings] in this\n 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 string. By default `false`.
`.n * @return` An index of the first 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 beginning to the end of this string, and finds at each position the first element in [strings]`
`.n * that matches this string at that position.
.n * \n`
`* \n public fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int = \n`
`findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1 \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 * \n`
`* \n public fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndexOf, ignoreCase: Boolean = false): Int = \n`
`findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1 \n \n`
`// indexOf \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 * \n`
`* \n public 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`
`* 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 * @sample samples.text.Strings.indexOf \n`
`* \n public 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`
`* 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 * \n`
`* \n public fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndexOf, 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`
`* 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 * \n`
`* \n public fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndexOf, 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`
`* 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 @Suppress("INAPPLICABLE_OPERATOR_MODIFIER") \n public 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`
`* 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@Suppress("\nINAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\n    indexOf(char, ignoreCase) >= 0\n/>\n * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean =\n    regex.containsMatchIn(this)\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>?)\n: Sequence<IntRange> {\n    override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\n        var nextSearchIndex: Int = currentStartIndex\n        var nextItem: IntRange? = null\n        var counter: Int = 0\n        private fun calcNext() {\n            if (nextSearchIndex < 0) {\n                nextState = 0\n                nextItem = null\n            } else {\n                if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {\n                    nextItem = currentStartIndex..input.lastIndex\n                    nextSearchIndex = -1\n                } else {\n                    val match = input.getNextMatch(nextSearchIndex)\n                    if (match == null) {\n                        nextItem = currentStartIndex..input.lastIndex\n                        nextSearchIndex = -1\n                    } else {\n                        val (index, length) = match\n                        nextItem = currentStartIndex until index\n                        currentStartIndex = index + length\n                        nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0\n                    }\n                }\n                nextState = 1\n            }\n        }\n        override fun next(): IntRange {\n            if (nextState == -1)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem as IntRange\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()\n            return nextState == 1\n        }\n    }\n}\n/>\n\n/>\n\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n * @param delimiters One or more characters to be used as delimiters.\n * @param startIndex The index to start searching delimiters from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n/>\n\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    require(limit >= 0, { "\nLimit must be non-negative, but was $limit." })\n    return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\n        indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 }\n    })\n}\n/>\n\n/>\n\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n * @param delimiters One or more strings to be used as delimiters.\n * @param startIndex The index to start searching delimiters from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n * 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.\n/>\n\nprivate fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    require(limit >= 0, { "\nLimit must be non-negative, but was $limit." })\n    val delimitersList = delimiters.asList()\n    return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\n        findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }\n    })\n}\n/>\n\n/>\n\n// split\n/>\n\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n * @param delimiters One or more strings to be used as delimiters.\n * @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> {
    require(limit >= 0, {"Limit must be non-negative, but was $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 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 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.\n *\n * The lines returned do not include terminating line separators.\n *\npublic fun CharSequence.lines():
List<String> = lineSequence().toList()\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\nimport kotlin.js.RegExp\n\n/**\n * Converts the characters
in the specified array to a string.\n *\n@SinceKotlin("1.2")\npublic actual fun String(chars: CharArray): String {\n
var result = ""\n for (char in chars) {\n     result += char\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")\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
(index in offset until offset + length) {\n     result += chars[index]\n } return result\n}\n\n/**\n *
Concatenates characters in this [CharArray] into a String.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun CharArray.concatToString(): String {\n
var result = ""\n for (char in this) {\n     result += char\n } return result\n}\n\n/**\n * Concatenates
characters in this [CharArray] or its subrange into a String.\n *\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 *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or
[endIndex] is greater than the size
of this array.\n *\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@Experi
mentalStdlibApi\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 } return result\n}\n\n/**\n * Returns a [CharArray]
containing characters of this string.\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 *\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 *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of
this string.\n *\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@Experi
mentalStdlibApi\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 *\n *
Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 *\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 *\n * @throws IndexOutOfBoundsException if
[startIndex] is less than zero or [endIndex] is greater than the size of this array.\n *\n * @throws
IllegalArgumentException if [startIndex] is greater than [endIndex].\n *\n * @throws CharacterCodingException if the
byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@Experi
mentalStdlibApi\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 *\n * Any malformed char sequence is replaced by the replacement byte sequence.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 *\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 *\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 and [throwOnInvalidSequence] is true.\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@Experi
mentalStdlibApi\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,
throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the
default locale.\n *\n * @sample samples.text.Strings.toUpperCase\n */\n\n@kotlin.internal.InlineOnly\npublic actual
inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string
converted to lower case using the rules of the default locale.\n *\n * @sample samples.text.Strings.toLowerCase\n
*/\n\n@kotlin.internal.InlineOnly\npublic actual inline
    fun String.toLowerCase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal actual
inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,
fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(str: String,
fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal inline fun
String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,
position)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeEndsWith(s: String): Boolean =
asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int):
String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,
endIndex)\n\n@kotlin.internal.InlineOnly\npublic inline fun String.concat(str:
String): String = asDynamic().concat(str)\n\n@kotlin.internal.InlineOnly\npublic inline fun String.match(regex:
String): Array<String>? = asDynamic().match(regex)\n\n//native public fun String.trim(): String\n//TODO:
String.replace to implement effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline
fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,
replacement)\n\n@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS
")\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n
val n1 = this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n
        var start = 0\n        while (true) {\n            val end = minOf(start + 16, min)\n            var s1 = this.substring(start,
end)\n            var s2 = other.substring(start, end)\n            if (s1 != s2) {\n
                s1 = s1.toUpperCase()\n                s2 = s2.toUpperCase()\n                if (s1 != s2) {\n                    s1 =
s1.toLowerCase()\n                    s2 = s2.toLowerCase()\n                    if (s1 != s2) {\n                        return
s1.compareTo(s2)\n                    }\n                }\n            }\n            if (end == min) break\n            start = end\n
        }\n        return n1 - n2\n    } else {\n        return compareTo(other)\n    }\n}\n\nprivate val
STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true)
}\n\n@SinceKotlin("1.2")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER:
Comparator<String>\n    get() = STRING_CASE_INSENSITIVE_ORDER\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// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UByteArray\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n\n@Published
Api\n\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n\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 /**\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
[IndexOutOfBoundsExcepion] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UByte = storage[index].toUByte()\n\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 [IndexOutOfBoundsExcepion] 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\n /** Returns the
number of elements in the array. *\n public override val size: Int get() = storage.size\n\n /** Creates an iterator
over the elements of the array. *\n public override operator fun iterator(): UByteIterator = Iterator(storage)\n\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()
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 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
* 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 * It
should return the value for an array element given its index.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n return UByteArray(ByteArray(size) { index ->
init(index).toByte()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
ubyteArrayOf(vararg
elements: UByte): UByteArray = elements\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// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\npublic inline class
UIntArray\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n\n@PublishedApi\n\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n /** Creates a new
array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(IntArray(size))\n\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
[IndexOutOfBoundsExcepion] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n public operator fun get(index: Int): UInt = storage[index].toUInt()\n\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 [IndexOutOfBoundsExcepion] except in Kotlin/JS\n * where
the behavior is unspecified.\n *\n public operator fun set(index: Int, value: UInt) {\n storage[index] =
value.toInt()\n }\n\n /** Returns the number of elements in the array. *\n public override val size: Int get() =
storage.size\n\n /** Creates an iterator over the elements of the array. *\n public override operator fun iterator():
UIntIterator = Iterator(storage)\n\n private class Iterator(private val array: IntArray) : UIntIterator() {\n private

```

```

var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextUInt() = if (index <
array.size) array[index++].toUInt()
    else throw NoSuchElementException(index.toString())\n } \n\n    override fun contains(element: UInt): 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    if ((element as Any?) !is UInt) return false\n\n    return
storage.contains(element.toInt())\n } \n\n    override fun containsAll(elements: Collection<UInt>): Boolean {\n
return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\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 * It should return the value for an array element given its index.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n    return UIntArray(IntArray(size) { index ->
init(index).toInt()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements\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// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
ULongArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@Published
Api\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\n\n    /** Creates
a new array of the specified [size], with all elements initialized to zero. */\n    public constructor(size: Int) :
this(LongArray(size))\n\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): ULong =
storage[index].toULong()\n\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: ULong) {\n        storage[index] = value.toLong()\n    }\n\n    /** Returns the
number of elements in the array. */\n    public override val size: Int get() = storage.size\n\n    /** Creates an iterator
over the elements of the array. */\n    public override operator
fun iterator(): ULongIterator = Iterator(storage)\n\n    private class Iterator(private val array: LongArray) :
ULongIterator() {\n        private var index = 0\n        override fun hasNext() = index < array.size\n        override fun
nextULong() = if (index < array.size) array[index++].toULong() else throw
NoSuchElementException(index.toString())\n    }\n\n    override fun contains(element: ULong): 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        if ((element as Any?) !is ULong) return false\n\n        return
storage.contains(element.toLong())\n    }\n\n    override fun containsAll(elements: Collection<ULong>): Boolean
{\n        return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\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 * It should return the value for an array element given its index.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n    return ULongArray(LongArray(size) { index ->
init(index).toLong()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\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// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\n\n@Suppress(\\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\\")\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\npublic inline class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n\n companion object {\n\n /**\n * A constant holding the minimum value an instance of ULong can have.\n */\n public const val MIN_VALUE: ULong = ULong(0)\n\n /**\n * A constant holding the maximum value an instance of ULong can have.\n */\n public const val MAX_VALUE: ULong = ULong(-1)\n\n /**\n * The number of bytes used to represent an instance of ULong in a binary form.\n */\n public const val SIZE_BYTES: Int = 8\n\n /**\n * The number of bits used to represent an instance of ULong in a binary form.\n */\n public const val SIZE_BITS: Int = 64\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 public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\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.compareTo(other.toULong())\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.compareTo(other.toULong())\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: ULong): Int = ulongCompare(this.data, other.data)\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n\n /**\n * Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\n\n /**\n * Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n\n /**\n * Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\n\n /**\n * Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n /**\n * Multiplies this value by the other value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): ULong = this.times(other.toULong())\n\n /**\n * Multiplies this value by the other value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\n\n /**\n * Multiplies this value by the other value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n\n /**\n * Multiplies this value by the other value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n\n /**\n * Divides this value by the other value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): ULong =

```

= this.div(other.toULong())\n  /** Divides this value by the other value. *\n  @kotlin.internal.InlineOnly\npublic inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n  /** Divides this value by the
other value. *\n  @kotlin.internal.InlineOnly\n  public
inline operator fun div(other: UInt): ULong = this.div(other.toULong())\n  /** Divides this value by the other
value. *\n  @kotlin.internal.InlineOnly\n  public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n  /** Calculates the remainder of dividing this value by the other value. *\n
@kotlin.internal.InlineOnly\n  public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n
  /** Calculates the remainder of dividing this value by the other value. *\n  @kotlin.internal.InlineOnly\n  public
inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n  /** Calculates the remainder of
dividing this value by the other value. *\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other:
UInt): ULong = this.rem(other.toULong())\n  /** Calculates the remainder of dividing this value by the other
value. *\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other: ULong):
  ULong = ulongRemainder(this, other)\n  /** Increments this value. *\n  @kotlin.internal.InlineOnly\n  public
inline operator fun inc(): ULong = ULong(data.inc())\n  /** Decrements this value. *\n
@kotlin.internal.InlineOnly\n  public inline operator fun dec(): ULong = ULong(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: ULong): ULongRange = ULongRange(this, other)\n  /** Shifts this value left by the [bitCount]
number of bits. *\n  @kotlin.internal.InlineOnly\n  public inline infix fun shl(bitCount: Int): ULong =
  ULong(data shl bitCount)\n  /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits
with zeros. *\n  @kotlin.internal.InlineOnly\n  public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr bitCount)\n  /** Performs a bitwise AND operation between the two values. *\n
@kotlin.internal.InlineOnly\n
  public inline infix fun and(other: ULong): ULong = ULong(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:
  ULong): ULong = ULong(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: ULong): ULong = ULong(this.data
xor other.data)\n  /** Inverts the bits in this value. *\n  @kotlin.internal.InlineOnly\n  public inline fun inv():
  ULong = ULong(data.inv())\n  /**\n  * Converts this [ULong] 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
`ULong`.\n  * \n  * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong`
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
  * Converts this [ULong] 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 `ULong`.\n  * \n  * The resulting
`Short` value is represented by the least significant 16 bits of this `ULong` 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  * Converts this [ULong] 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 `ULong`.\n  * \n
  * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.\n  * Note that
the resulting `Int` value may be negative.\n
  *\n  @kotlin.internal.InlineOnly\n  public inline fun toInt(): Int = data.toInt()\n  /**\n  * Converts this
[ULong] value to [Long].\n  * \n  * If this value is less than or equals to [Long.MAX_VALUE], the resulting
`Long` value represents\n  * the same numerical value as this `ULong`. Otherwise the result is negative.\n  * \n
  * The resulting `Long` value has the same binary representation as this `ULong` value.\n  *\n
  @kotlin.internal.InlineOnly\n  public inline fun toLong(): Long = data\n  /**\n  * Converts this [ULong] 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 `ULong`.\n  * \n  * The resulting `UByte` value is represented
by the least significant 8 bits of this `ULong` value.\n  *\n  @kotlin.internal.InlineOnly\n  public inline fun

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toUByte(): UByte = data.toUByte()\n /**\n * Converts this [ULong]
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 `ULong`.\n *\n * The resulting `UShort` value is
represented by the least significant 16 bits of this `ULong` value.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toUShort(): UShort = data.toUShort()\n /**\n * Converts this [ULong] value to [UInt].\n *\n * If
this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same
numerical value as this `ULong`.\n *\n * The resulting `UInt` value is represented by the least significant 32
bits of this `ULong` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt =
data.toUInt()\n /** Returns this value. */\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong
= this\n\n /**\n * Converts this [ULong] value to [Float].\n
*\n * The resulting value is the closest `Float` to this `ULong` value.\n * In case when this `ULong` value is
exactly between two `Float`s,\n * the one with zero at least significant bit of mantissa is selected.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toDouble().toFloat()\n /**\n * Converts
this [ULong] value to [Double].\n *\n * The resulting value is the closest `Double` to this `ULong` value.\n *
In case when this `ULong` value is exactly between two `Double`s,\n * the one with zero at least significant bit of
mantissa is selected.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
ulongToDouble(data)\n\n public override fun toString(): String = ulongToString(data)\n\n /**\n * Converts
this [Byte] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same
numerical value as this `Byte`.\n *\n * The least
significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most
significant 56 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Byte.toULong(): ULong = ULong(this.toLong())\n\n /**\n * Converts this [Short] value to [ULong].\n *\n * If this
value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n *\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most
significant 48 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Short.toULong(): ULong = ULong(this.toLong())\n\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("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Int.toULong(): ULong = ULong(this.toLong())\n\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("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Long.toULong(): ULong = ULong(this)\n\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("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public
inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n\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("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
Double.toULong(): ULong = doubleToULong(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\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public inline class

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UShortArray\n@Suppress(\\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\\")\n@Published
Api\ninternal constructor(@PublishedApi
internal val storage: ShortArray) : Collection<UShort> {\n\n /** Creates a new array of the specified [size], with
all elements initialized to zero. *\n public constructor(size: Int) : this(ShortArray(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): UShort = storage[index].toUShort()\n\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: UShort)
{\n storage[index] = value.toShort()\n
}\n\n /** Returns the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n
/** Creates an iterator over the elements of the array. *\n public override operator fun iterator(): UShortIterator =
Iterator(storage)\n\n private class Iterator(private val array: ShortArray) : UShortIterator() {\n private var
index = 0\n override fun hasNext() = index < array.size\n override fun nextUShort() = if (index <
array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n }\n\n override
fun contains(element: UShort): 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 if ((element as Any?) !is UShort)
return false\n\n return storage.contains(element.toShort())\n }\n\n override fun containsAll(elements:
Collection<UShort>): Boolean {\n return (elements
as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\n }\n\n override fun isEmpty(): Boolean
= this.storage.size == 0\n\n/**\n * Creates a new array of the specified [size], where each element is calculated
by calling the specified\n * [init] function.\n * [init] is called for each array element sequentially
starting from the first one.\n * It should return the value for an array element given its index.\n
*\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n return UShortArray(ShortArray(size) { index ->
init(index).toShort()
})\n}\n\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ushortArrayOf(vararg elements: UShort): UShortArray = elements\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@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// 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 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@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UIntArray.component1(): UInt {\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@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component1(): ULong {\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@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component1(): UByte {\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

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behavior is unspecified.\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 * 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component2(): UInt {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\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 [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.component3(): UInt {\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 [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.component3(): ULong {\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 [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.component3(): UByte {\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 [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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * @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 * @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 * @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 * @sample samples.collections.Collections.Elements.elementAt\n

*\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


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*\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@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@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@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@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@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@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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\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@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

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*\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
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element is found.\n
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element is found.\n
*\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
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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
*\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))
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element was not found.\n

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*\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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrNull(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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrNull(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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrNull(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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.getOrNull(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*\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 [index] or `null` if the [index] is out of bounds of this array.\n */\n*\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*\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*\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 */\n*\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*\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*\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*\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*\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())
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}\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 {
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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
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[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(): UInt {\n    return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(): ULong {\n    return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n *
@throws [NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(): UByte {\n    return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.last(): UShort {\n    return storage.last().toUShort()\n}\n\n/**\n * Returns the last 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.last(predicate: (UInt) -> Boolean): UInt {\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 *
@throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n    for (index in this.indices.reversed()) {\n

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    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 * @throws [NoSuchElementException] if no such element is found.\n
*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\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
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*\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n
    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return
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predicate.")\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\n * public inline fun
UIntArray.lastIndexOf(element: UInt): Int {\n    return storage.lastIndexOf(element.toInt())\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\n * public 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\n * public 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\n * public 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 * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public 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 * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public 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 * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public 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 * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * public 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 * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public 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 * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public 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
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UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (index in this.indices.reversed()) {\n
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*\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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*\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULongArray.randomOrNull(): ULong? {\n    return randomOrNull(Random)\n}\n\n/**\n *
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y\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic
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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic 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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic 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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic 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 {
    var single: UShort? = 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 UShort
}
}
}
}
}

*Returns single element, or `null` if the array is empty or has more than one element.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {
return if (size == 1) this[0] else null
}
}
}
}
}

*Returns single element, or `null` if the array is empty or has more than one element.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.singleOrNull(): ULong? {
return if (size == 1) this[0] else null
}
}
}
}
}

*Returns single element, or `null` if the array is empty or has more than one element.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {
return if (size == 1) this[0] else null
}
}
}
}
}

*Returns single element, or `null` if the array is empty or has more than one element.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {
return if (size == 1) this[0] else null
}
}
}
}
}

*Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
}
}
}

*Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
}
}
}
}

*Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
}
}
}
}

*Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}
}
}
}
}

*Returns a list containing all elements except first [n] elements.

*\n * @throws IllegalArgumentException if [n] is negative.
*\n * @sample samples.collections.Collections.Transformations.drop
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {
require(n >= 0) { "Requested element count $n is less than zero." }
return takeLast((size - n).coerceAtLeast(0))
}
}
}
}
}

*Returns a list containing all elements except first [n] elements.

*\n * @throws IllegalArgumentException if [n] is negative.
*\n * @sample samples.collections.Collections.Transformations.drop
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {
require(n >= 0) { "Requested element count $n is less than zero." }
return takeLast((size - n).coerceAtLeast(0))
}
}
}
}
}

*Returns a list containing all elements except first [n] elements.

*\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.drop(n:
Int): List<UByte> {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n
    require(n >= 0) { "\"Requested element count $n is less than zero.\" }\n
}\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 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 } return
emptyList()\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
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@\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@\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 = 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@\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@\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@\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@\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 * @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@\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 * @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@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean):

```

```

List<ULong> {
    return filterIndexedTo(ArrayList<ULong>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {
    return
    filterIndexedTo(ArrayList<UByte>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {
    return
    filterIndexedTo(ArrayList<UShort>(), predicate)
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {
    forIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {
    forIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {
    forIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C {
    forIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {
    return filterNotTo(ArrayList<UInt>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {
    return
    filterNotTo(ArrayList<ULong>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {
    return filterNotTo(ArrayList<UByte>(), predicate)
}

/**
 * Returns a list containing all elements not matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

```

```

UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {
    return filterNotTo(ArrayList<UShort>(), predicate)
}
Append all elements not matching the given [predicate] to the given [destination].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(
    destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}
Append all elements not matching the given [predicate] to the given [destination].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(
    destination: C, predicate: (ULong) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}
Append all elements not matching the given [predicate] to the given [destination].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(
    destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}
Append all elements not matching the given [predicate] to the given [destination].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(
    destination: C, predicate: (UShort) -> 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].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterTo(
    destination: C, predicate: (UInt) -> 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].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterTo(
    destination: C, predicate: (ULong) -> 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].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterTo(
    destination: C, predicate: (UByte) -> 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].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterTo(
    destination: C, predicate: (UShort) -> 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.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
Returns a list containing elements at indices in the specified [indices] range.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: IntRange): List<ULong> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
Returns a list containing elements at indices in the specified [indices] range.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: IntRange): List<UByte> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
Returns a list containing elements at indices in the specified [indices] range.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: IntRange): List<UShort> {
    if (indices.isEmpty()) return listOf()
    return

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copyOfRange(indices.start, indices.endInclusive + 1).asList()\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 = 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 */

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*^@SinceKotlin("1.3")@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
  (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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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  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

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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.reverse(): Unit {\n  storage.reverse()\n}\n\n/**\n * Returns a list with elements in reversed
order.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt>
{\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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.reversed(): List<ULong> {\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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n

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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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.reversed(): List<UShort> {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reversedArray(): UIntArray {\n  return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an
array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reversedArray(): ULongArray {\n  return ULongArray(storage.reversedArray())\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reversedArray(): UByteArray
{\n  return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in
reversed order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.reversedArray(): UShortArray {\n  return
UShortArray(storage.reversedArray())\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

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{\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 {
    return storage
}

/**
 * Returns an array of type [ShortArray], which is a view of this array
 * where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.asShortArray(): ShortArray {
    return storage
}

/**
 * Returns an array of type [UByteArray],
 * 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
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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
infix fun
UIntArray.contentEquals(other: UIntArray): Boolean {
    return
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("1.3")
@ExperimentalUnsignedTypes
public infix fun
ULongArray.contentEquals(other:
ULongArray): Boolean {
    return 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("1.3")
@ExperimentalUnsignedTypes
public infix fun
UByteArray.contentEquals(other: UByteArray): Boolean {
    return
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("1.3")
@ExperimentalUnsignedTypes
public infix fun
UShortArray.contentEquals(other: UShortArray): Boolean {
    return
storage.contentEquals(other.storage)
}

/**
 * Returns a hash code based on the contents of this array as if it is
 * [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UIntArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it
 * is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code
 * based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UByteArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it
 * is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
fun
UShortArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a string
 * representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UIntArray.contentToString(): String {
    return joinToString(", ", "[", "]")
}

/**
 * Returns a string representation of the contents of the specified
 * array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n
return joinToString(", ", "[", "]")\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("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.contentToString(): String {\n return joinToString(", ", "[", "]")\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n
return joinToString(", ", "[", "]")\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.\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\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\nsamples.collections.Arrays.CopyOfOperations.copyOfOf\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\na copy of the original array.\n * \n * @sample\nsamples.collections.Arrays.CopyOfOperations.copyOfOf\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\nwhich is a copy of the original array.\n * \n * @sample\nsamples.collections.Arrays.CopyOfOperations.copyOfOf\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\nwhich is a copy of the original array.\n * \n * @sample\nsamples.collections.Arrays.CopyOfOperations.copyOfOf\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun UShortArray.copyOfOf(): UShortArray {\n    return UShortArray(storage.copyOfOf())\n}\n\n/**\n * Returns\nnew array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or\npadded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the\ncopy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra\nelements in the copy array are filled with zero values.\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\nnew array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\ntruncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size\nof the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the\noriginal array, the extra elements in the copy array are filled with zero values.\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\nnew array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\ntruncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the\noriginal array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the\noriginal array, the extra elements in the copy array are filled with zero values.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.copyOfOf(newSize: Int): UByteArray {\n    return\n    UByteArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns\nnew array which is a copy of the original array,\nresized 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\n[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
```

```

values.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.copyOf(newSize: Int): UShortArray {\n    return
UShortArray(storage.copyOf(newSize))\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), must be in `0..array.size`\n *
@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\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), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\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), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\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), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\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), 0 by default.\n * @param
toIndex the end of the range (exclusive), 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), 0 by default.\n * @param toIndex the end of the range
(exclusive), 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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), 0 by default.\n * @param toIndex the end of the range (exclusive), 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
*\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 * \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)\n}\n\n/**\n * Sorts the array in-place.\n */\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)\n}\n\n/**\n * Sorts the array in-place.\n */\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)\n}\n\n/**\n * Sorts the  
array in-place.\n */\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)\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  
elements of this primitive array.\n */\n *\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 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  
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>  
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
```

```
*\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 * Appends all elements yielded from results of [transform] function being invoked
on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\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
*\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
*\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
*\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
*\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 * \n * @SinceKotlin("1.3")\n * \n * @ExperimentalUnsignedTypes\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n * \n * return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n * \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 * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * \n * @SinceKotlin("1.3")\n * \n * @ExperimentalUnsignedTypes\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n * \n * return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n * \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 * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * \n * @SinceKotlin("1.3")\n * \n * @ExperimentalUnsignedTypes\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n * \n * return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n * \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 * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * \n * @SinceKotlin("1.3")\n * \n * @ExperimentalUnsignedTypes\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n * \n * return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n * \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 * \n * @return The [destination] map.\n * \n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * \n * @SinceKotlin("1.3")\n * \n * @ExperimentalUnsignedTypes\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n * \n * for (element in this) {\n * \n * val key = keySelector(element)\n * \n * val list = destination.getOrPut(key) { ArrayList<UInt>() }\n * \n * list.add(element)\n * \n * }\n * \n * return destination\n * \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 * \n * @return The [destination] map.\n * \n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * \n * @SinceKotlin("1.3")\n * \n * @ExperimentalUnsignedTypes\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n * \n * for (element in this) {\n * \n * val key = keySelector(element)\n * \n * val list = destination.getOrPut(key) { ArrayList<ULong>() }\n * \n * list.add(element)\n * \n * }\n * \n * return destination\n * \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 * \n * @return The [destination] map.\n * \n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * \n * @SinceKotlin("1.3")\n * \n * @ExperimentalUnsignedTypes\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <K, M :

```

MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):
M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<UByte>()
        }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements
 * of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):
M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<UShort>()
        }
        list.add(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.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K,
valueTransform: (UInt) -> 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.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K,
valueTransform: (ULong) -> 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.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector:
(UByte) -> K, valueTransform: (UByte) -> 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.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector:
(UShort) -> K, valueTransform: (UShort) -> V): M {
    for (element in this) {
        val key =
            keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UIntArray.map(transform: (UInt) -> 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
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R>
UByteArray.map(transform:
(UByte) -> 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 to each element in the original array.n * @sample
samples.collections.Collections.Transformations.mapn
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R>
UByteArray.map(transform: (UByte) -> 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 to each
element in the original array.n * @sample samples.collections.Collections.Transformations.mapn
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R>
UShortArray.map(transform: (UShort) -> 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 to each element and its index in the original array.n * @param [transform] function that
takes the index of an element and the element itselfn * and returns the result of the transform applied to the
element.n */n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline
fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> 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 to each element and its index in the original array.n * @param [transform] function
that takes the index of an element and the element itselfn * and returns the result of the transform applied to the
element.n */n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> 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 to each
element and its index in the original array.n * @param [transform] function that takes the index of an element and
the element itselfn * and returns the result of the transform applied to the element.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R>
UByteArray.mapIndexed(transform: (index: Int, UByte) -> 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 to each element and its index in the original array.n * @param [transform] function
that takes the index of an element and the element itselfn * and returns the result of the transform applied to the
element.n */n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline
fun <R> UShortArray.mapIndexed(transform:
(index: Int, UShort) -> R): List<R> {n return mapIndexedTo(ArrayList<R>(size), transform)n}n/n/**n *
Applies the given [transform] function to each element and its index in the original arrayn * and appends the results
to the given [destination].n * @param [transform] function that takes the index of an element and the element
itselfn * and returns the result of the transform applied to the element.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {n var
index = 0n for (item in this)n destination.add(transform(index++, item))n return destinationn}n/n/**n *
Applies the given [transform] function to each element and its index in the original arrayn * and appends the results
to the given [destination].n * @param [transform] function that takes the index of an element and the element
itselfn * and returns the result of the transform applied to the element.n
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {n
var index = 0n for (item in this)n destination.add(transform(index++, item))n return
destinationn}n/n/**n * Applies the given [transform] function to each element and its index in the original arrayn

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* 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/**\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/**\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/**\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/**\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/**\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/**\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/**\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/**\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 UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {\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 *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all
elements match the given [predicate].\n *\n * @sample samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (!predicate(element))
return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n *\n * @sample

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samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.all(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n *
Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n
* \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n
* \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n
* \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches
the given [predicate].\n
* \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (UInt) -> 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (ULong) -> 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(predicate: (UByte) -> 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(predicate:
(UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.count(predicate: (UInt) -> 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.count(predicate: (ULong) -> Boolean): Int {\n var count = 0\n for (element in this) if

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(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public
inline fun UByteArray.count(predicate: (UByte)
-> 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 @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UShortArray.count(predicate: (UShort) -> 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 to current accumulator value and each element.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> 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 to current accumulator value and each element.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> 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 to current accumulator value and each
element.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline
fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> 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 to current accumulator value and each
element.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public
inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> 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 * @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\n public inline fun <R>
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> 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 * @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\n public 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 * @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\n public 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 * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the

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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 to each element and
current 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
to each element and current 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
to each element and current 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 to each element and current 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 * @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 * @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 * @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 =

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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 * @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
desired 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 desired action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> 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 desired action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> 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 desired action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action:
(index: Int, UShort) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max(): UInt? {\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\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

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= e\n } \n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\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 first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\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.maxBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxBy(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
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.maxBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxBy(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
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.maxBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxBy(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
maxElem = e\n
maxValue = v\n }\n }\n return maxElem\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator:
Comparator<in UInt>): UInt? {\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 * @sample
samples.collections.Collections.Aggregates.maxWith\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\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 * @sample
samples.collections.Collections.Aggregates.maxWith\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

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ByteArray.maxWith(comparator: 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.maxWith(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/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): 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/**\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.minBy\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minBy(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 * @sample
samples.collections.Collections.Aggregates.minBy\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minBy(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      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.minBy\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minBy(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      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.minBy\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minBy(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      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator:

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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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(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 * Accumulates value starting with the first element and applying [operation] from left to right to
current accumulator value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt { \n  if (isEmpty())\n    throw

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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 to current accumulator value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduce(operation: (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(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.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduce(operation: (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(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.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduce(operation: (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(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 * @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.reduce\n */\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\n * to current accumulator value and each element with its index in the original 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.reduce\n */\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

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right\n * to current accumulator value and each element with its index in the original array.\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.reduce\n
*\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. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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 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.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with last
element and applying [operation] from right to left to each
element and current 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)
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 last element and applying [operation] from right to left
to each element and current 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 <

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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 last element and applying [operation] from right to left
to each element and current 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) 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 last element and applying [operation] from right to left
to each element and current 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) 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 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 * @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 * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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 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 * @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 * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
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 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 * @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 * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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 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 * @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 * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\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 last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\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 last element and applying [operation]
```

from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\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 last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\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/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\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/**\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n if (isEmpty())\n 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.scan\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(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/**\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun <R> UByteArray.scan(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/**\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun <R> UShortArray.scan(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun <R> UIntArray.scanIndexed(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic
inline fun <R> ULongArray.scanIndexed(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

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next accumulator value.\n
 * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(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.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(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 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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.scanReduce(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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.scanReduce(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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.scanReduce(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.scanReduce\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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShortArray.scanReduce(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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.scanReduceIndexed(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 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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULongArray.scanReduceIndexed(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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UByteArray.scanReduceIndexed(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 and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.scanReduce
@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.scanReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort):
List<UShort> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result =
    ArrayList<UShort>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator =
        operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.sumBy(selector: (UInt) -> UInt):
UInt {
    var sum: UInt = 0
    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("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.sumBy(selector: (ULong) -> UInt): UInt {
    var sum: UInt = 0
    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("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.sumBy(selector: (UByte) -> UInt): UInt {
    var sum: UInt = 0
    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("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public
inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {
    var sum: UInt = 0
    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("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.sumByDouble(selector: (UInt) -> Double): Double {
    var sum: Double = 0.0
    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("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
    var sum: Double = 0.0
    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("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
    var sum: Double = 0.0
    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("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
    var sum: Double = 0.0
    for (element in
    this) {
        sum += selector(element)
    }
    return sum
}
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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {
    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 samples.collections.Iterables.Operations.zipIterable

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {
    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.\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 <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@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@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
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*\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,
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
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samples.collections.Iterables.Operations.zipIterableWithTransform\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
samples.collections.Iterables.Operations.zipIterable\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 samples.collections.Iterables.Operations.zipIterable\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
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other:

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Iterable<R>): List<Pair<UByte, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
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infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {\n  return zip(other) { t1, t2 -> t1 to
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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
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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)
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samples.collections.Iterables.Operations.zipIterable\n
*\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
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*\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
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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 *
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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
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ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n    val size = minOf(size,
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UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> 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 the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Array<out 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 array.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out 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 array.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out 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 array.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out
UShort>.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 array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

UIntArray.sum(): UInt {
    return storage.sum().toUInt()
}

/**
 * Returns the sum of all elements in the
 * array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.sum(): ULong {
    return storage.sum().toULong()
}

/**
 * Returns the sum of all elements in
 * the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.sum(): UInt {
    return sumBy { it.toUInt() }
}

/**
 * Returns the sum of all elements in the
 * array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.sum(): UInt {
    return sumBy
    { it.toUInt() }
}

/*
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 * contributors.
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 * license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UCollectionsKt")
package
kotlin.collections

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns an array of UByte containing all of the
 * elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Collection<UByte>.toUByteArray(): UByteArray {
    val result = UByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UInt containing
 * all of the elements
 * of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Collection<UInt>.toUIntArray(): UIntArray {
    val result = UIntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of ULong containing all of the
 * elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Collection<ULong>.toULongArray(): ULongArray {
    val result = ULongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of UShort
 * containing all of the elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UShort>.toUShortArray():
UShortArray {
    val result = UShortArray(size)
    var index = 0
    for (element in this)
        result[index++] =
        element
    return result
}

/**
 * Returns the sum of all elements
 * in the collection.
 */
@kotlin.jvm.JvmName("sumOfUInt")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Iterable<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Iterable<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Iterable<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Iterable<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/*
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 * 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("UComparisonsKt")
package
kotlin.comparisons

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*

/**
 * Returns the
 * greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UInt, b:
UInt): UInt {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, b: ULong): ULong

```



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the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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 *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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 *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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 *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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 *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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 *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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.\n * \n * The [to] value should be less than or equal

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to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.downTo(to: ULong):
ULongProgression {\n    return ULongProgression.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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.downTo(to: UShort):
UIntProgression {\n    return
    UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over
the same range in the opposite direction with the same step.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntProgression.reversed():
UIntProgression {\n    return UIntProgression.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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongProgression.reversed():
ULongProgression {\n    return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a
progression that goes over the same range with the given step.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntProgression.step(step: Int):
UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return UIntProgression.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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongProgression.step(step: Long):
ULongProgression {\n    checkStepIsPositive(step > 0, step)\n    return ULongProgression.fromClosedRange(first,
last, if (this.step > 0) step else -step)\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.until(to: UByte): UIntRange
{\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to -
1u).toUInt()\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
infix fun UInt.until(to: UInt): UIntRange {\n    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return
this .. (to - 1u).toUInt()\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.until(to: ULong): ULongRange
{\n    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n    return this .. (to - 1u).toULong()\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.until(to: UShort): UIntRange
{\n    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to -
1u).toUInt()\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtLeast(minimumValue: UInt):
UInt {\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtLeast(minimumValue:
ULong): ULong {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this

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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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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

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value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n *
@sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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"/\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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\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("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<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 sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

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Sequence<UShort>.sum(): UInt {
    var sum: UInt = 0
    for (element in this) {
        sum += element
    }
    return sum
}

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 */
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 on 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 on 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 on 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 on 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 on its element type.
     */
    public interface List<out E> : Collection<E> {
        /** Query Operations
         */
        override val size: Int

        /** override fun isEmpty(): Boolean
         */
        override fun isEmpty(): Boolean
    }
}

```

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contains(element: @UnsafeVariance E): Boolean\n  override fun iterator(): Iterator<E>\n\n // Bulk Operations\n  override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n // Positional Access Operations\n  /**\n   * Returns the element at the specified index in the list.\n   */\n  public operator fun get(index: Int): E\n\n // Search Operations\n  /**\n   * Returns the index of the first occurrence of the specified element in the list, or -1 if the specified\n   * element is not contained in the list.\n   */\n  public fun indexOf(element: @UnsafeVariance E): Int\n\n /**\n   * Returns the index of the last occurrence of the specified element in the list, or -1 if the specified\n   * element is not contained in the list.\n   */\n  public fun lastIndexOf(element: @UnsafeVariance E): Int\n\n // List Iterators\n  /**\n   * Returns a list iterator over the elements in this list (in proper sequence).\n   */\n  public fun listIterator(): ListIterator<E>\n\n /**\n   * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\n   */\n  public fun listIterator(index: Int): ListIterator<E>\n\n // View\n  /**\n   * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n   * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n   * Structural changes in the base list make the behavior of the view undefined.\n   */\n  public fun subList(fromIndex: Int, toIndex: Int): List<E>\n\n /**\n   * A generic ordered collection of elements that supports adding and removing elements.\n   * @param E the type of elements contained in the list. The mutable list is invariant on its element type.\n   */\n  public interface MutableList<E> : List<E>, MutableCollection<E> {\n\n // Modification Operations\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  override fun add(element: E): Boolean\n\n // Bulk Modification Operations\n  /**\n   * Adds all of the elements of the specified collection to the end of this list.\n   */\n  * The elements are appended in the order they appear in the [elements] collection.\n  * \n  * @return `true` if the list was changed as the result of the operation.\n  * \n  override fun addAll(elements: Collection<E>): Boolean\n\n /**\n   * Inserts all of the elements of the specified collection [elements] into this list at the specified [index].\n   */\n  * @return `true` if the list was changed as the result of the operation.\n  * \n  public fun addAll(index: Int, elements: Collection<E>): Boolean\n\n  override fun removeAll(elements: Collection<E>): Boolean\n\n  override fun retainAll(elements: Collection<E>): Boolean\n\n  override fun clear(): Unit\n\n // Positional Access Operations\n  /**\n   * Replaces the element at the specified position in this list with the specified element.\n   */\n  * @return the element previously at the specified position.\n  * \n  public operator fun set(index: Int, element: E): E\n\n /**\n   * Inserts an element into the list at the specified [index].\n   */\n  * \n  public fun add(index: Int, element: E): Unit\n\n /**\n   * Removes an element at the specified [index] from the list.\n   */\n  * @return the element that has been removed.\n  * \n  public fun removeAt(index: Int): E\n\n // List Iterators\n  override fun listIterator(): MutableListIterator<E>\n\n  override fun listIterator(index: Int): MutableListIterator<E>\n\n // View\n  override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n\n /**\n   * A generic unordered collection of elements that does not support duplicate elements.\n   * Methods in this interface support only read-only access to the set;\n   * read/write access is supported through the [MutableSet] interface.\n   * @param E the type of elements contained in the set. The set is covariant on its element type.\n   */\n  public interface Set<out E> : Collection<E> {\n\n // Query Operations\n  override val size: Int\n\n  override fun isEmpty(): Boolean\n\n  override fun contains(element: @UnsafeVariance E): Boolean\n\n  override fun iterator(): Iterator<E>\n\n // Bulk Operations\n  override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n /**\n   * A generic unordered collection of elements that does not support duplicate elements, and supports\n   * adding and removing elements.\n   * @param E the type of elements contained in the set. The mutable set is invariant on its element type.\n   */\n  public interface MutableSet<E> : Set<E>, MutableCollection<E> {\n\n // Query Operations\n  override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n  /**\n   * Adds the specified element to the set.\n   */\n  * @return `true` if the element has been added, `false` if the element is already contained in the set.\n  * \n  override fun add(element: E): Boolean\n\n  override fun remove(element: E):

```

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Boolean\n\n // Bulk Modification Operations\n\n override fun addAll(elements: Collection<E>): Boolean\n
override fun removeAll(elements: Collection<E>): Boolean\n override fun retainAll(elements: Collection<E>):
Boolean\n override fun clear(): Unit\n}\n\n**\n * A 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 * Methods in this interface support only read-only access to the map;
read-write access is supported through\n * the [MutableMap] interface.\n * @param K the type of map keys. The
map is invariant on its key type, as it\n * can accept key as a parameter (of [containsKey] for example) and
return it in [keys] set.\n * @param V the type of map values. The map is covariant on its value type.\n */\npublic
interface Map<K, out V> {\n // Query Operations\n /**\n * Returns the number of key/value pairs in the
map.\n */\n public val size: Int\n /**\n * Returns `true` if the map is empty (contains no elements), `false`
otherwise.\n */\n public fun isEmpty(): Boolean\n /**\n * Returns `true` if the map contains the specified
[key].\n */\n public fun containsKey(key: K): Boolean\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 * 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
* 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 return null as V\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 * 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 * 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 * 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 * Returns the value of this key/value pair.\n */\n public val value:
V\n }\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 on its key type.\n * @param V the type of map
values. The mutable map is invariant on its value type.\n */\npublic 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
* 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 * 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 // 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 * Removes all elements from this
map.\n */\n public fun clear(): Unit\n // Views\n
/**\n * Returns a [MutableSet] of all keys in this map.\n */\n override val keys: MutableSet<K>\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 * Returns a [MutableSet] of all
key/value pairs in this map.\n */\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\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 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of

```


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```

package
kotlin.collections

/** An iterator over a sequence of values of type `Byte`. */
public abstract class ByteIterator :
Iterator<Byte> {
    override final fun next() = nextByte()
    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextByte(): Byte
}

/** An iterator over a sequence of values of type `Char`. */
public abstract class CharIterator : Iterator<Char> {
    override final fun next() = nextChar()
    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextChar(): Char
}

/** An iterator over a sequence of values of type `Short`. */
public abstract class ShortIterator : Iterator<Short> {
    override final fun next() = nextShort()
    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextShort(): Short
}

/** An iterator over a sequence of values of type `Int`. */
public abstract class IntIterator : Iterator<Int> {
    override final fun next() = nextInt()
    /** 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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 */
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 = last.toInt()
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first.toInt() 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 = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = 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 = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = 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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 */

```

```

file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`.\n */\npublic open class CharProgression\n    internal constructor\n    (\n        start: Char,\n        endInclusive: Char,\n        step: Int\n    ): Iterable<Char> {\n    init {\n        if (step == 0)\n            throw kotlin.IllegalArgumentException("\nStep must be non-zero.\n")\n        if (step == Int.MIN_VALUE) throw\n            kotlin.IllegalArgumentException("\nStep must be greater than Int.MIN_VALUE to avoid overflow on negation.\n")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: Char = start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last:\n        Char = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toChar()\n\n    /**\n     * The step of the progression.\n     */\n    public val step: Int = step\n\n    override fun iterator(): CharIterator =\n        CharProgressionIterator(first, last, step)\n\n    /** Checks if the progression is empty. */\n    public open fun\n        isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n    override fun equals(other: Any?): Boolean =\n        if (other is CharProgression && (isEmpty() && other.isEmpty()) ||\n            first == other.first && last == other.last &&\n            step == other.step)\n        else if (isEmpty()) -1 else (31 * (31 * first.toInt() +\n            last.toInt()) + step)\n\n    override fun toString(): String = if (step > 0) \"$first..$last step $step\"\n        else \"$first downTo $last step ${-step}\"\n\n    companion object {\n        /**\n         * Creates CharProgression within the specified bounds of a closed range.\n         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n         * In order to go backwards the [step] must be negative.\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        (\n            start: Int,\n            endInclusive: Int,\n            step: Int\n        ): Iterable<Int> {\n        init {\n            if (step == 0) throw\n                kotlin.IllegalArgumentException("\nStep must be non-zero.\n")\n            if (step == Int.MIN_VALUE) throw\n                kotlin.IllegalArgumentException("\nStep must be greater than Int.MIN_VALUE to avoid overflow on negation.\n")\n        }\n\n        /**\n         * The first element in the progression.\n         */\n        public\n            val first: Int = start\n\n        /**\n         * The last element in the progression.\n         */\n        public val last: Int =\n            getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\n\n        /**\n         * The step of the progression.\n         */\n        public val step: Int = step\n\n        override fun iterator(): IntIterator =\n            IntProgressionIterator(first, last, step)\n\n        /** Checks if the progression is empty. */\n        public open fun\n            isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n        override fun equals(other: Any?): Boolean =\n            if (other is IntProgression && (isEmpty() && other.isEmpty()) ||\n                first == other.first && last == other.last &&\n                step == other.step)\n            else if (isEmpty()) -1 else (31 * (31 * first + last) +\n                step)\n\n        override fun toString(): String = if (step > 0) \"$first..$last step $step\"\n            else \"$first downTo $last step ${-step}\"\n\n        companion object {\n            /**\n             * Creates IntProgression within the specified bounds of a closed range.\n             * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n             * In order to go backwards the [step] must be negative.\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 =\n                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            (\n                start: Long,\n                endInclusive: Long,\n                step: Long\n            ): Iterable<Long> {\n            init {\n                if (step == 0L) throw kotlin.IllegalArgumentException("\nStep\n                must be non-zero.\n")\n                if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("\nStep must be\n                greater than Long.MIN_VALUE to avoid overflow on\n                negation.\n")\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 =\n                getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\n\n            /**\n             * The step of the progression.\n             */\n            public val step: Long = step\n\n            override fun iterator(): LongIterator =\n                LongProgressionIterator(first, last, step)\n\n            /** Checks if the progression is empty. */\n            public open fun

```

```

isEmpty(): Boolean = if (step > 0) first > last else first < last\n    override fun equals(other: Any?): Boolean =\n
other is LongProgression && (isEmpty() && other.isEmpty()) ||\n    first == other.first && last == other.last &&\n
step == other.step)\n    override fun hashCode(): Int =\n    if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr\n
32))) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n    override\n
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\n
the specified [step].\n    * In order to go backwards the [step] must be negative.\n    * [step] must be\n
greater than `Long.MIN_VALUE` and not equal to zero.\n    */\n    public fun fromClosedRange(rangeStart:\n
Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n
}\n}\n\n"/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of\n
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.ranges\n\n/**\n * Represents a range of values (for example,\n
numbers or characters).\n * See the [Kotlin language\n
documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n */\n\npublic interface\n
ClosedRange<T: Comparable<T>> {\n    /**\n    * The minimum value in the range.\n    */\n    public val start:\n
T\n\n    /**\n    * The maximum value in the range (inclusive).\n    */\n    public val endInclusive: T\n\n    /**\n    * Checks whether the specified [value] belongs to the range.\n    */\n    public operator fun contains(value: T):\n
Boolean = value >= start && value <= endInclusive\n\n    /**\n    * Checks whether the range is empty.\n    */\n    public fun isEmpty(): Boolean = start > endInclusive\n}\n\n"/**\n * Copyright 2010-2015 JetBrains s.r.o.\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in\n
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License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage\n
kotlin\n\n/**\n * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\n\n
*/\n\npublic object Unit {\n    override fun toString() = \"kotlin.Unit\"\n}\n\n"/**\n * Copyright 2010-2015 JetBrains\n
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http://www.apache.org/licenses/LICENSE-2.0\n\n * Unless required by applicable law or agreed to in writing,\n
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OR CONDITIONS OF ANY\n
KIND, either express or implied.\n * See the License for the specific language governing permissions and\n\n
limitations under the License.\n */\n\npackage kotlin.annotation\n\nimport\n
kotlin.annotation.AnnotationTarget\n\n/**\n * Contains the list of code elements which are the possible annotation\n
targets\n */\n\npublic enum class AnnotationTarget {\n    /** Class, interface or object, annotation class is also\n
included */\n    CLASS,\n    /** Annotation class only */\n    ANNOTATION_CLASS,\n    /** Generic type\n
parameter (unsupported yet) */\n    TYPE_PARAMETER,\n    /** Property */\n    PROPERTY,\n    /** Field,\n
including property's backing field */\n    FIELD,\n    /** Local variable */\n    LOCAL_VARIABLE,\n    /** Value\n
parameter of a function or a constructor */\n    VALUE_PARAMETER,\n    /** Constructor only (primary or\n
secondary) */\n    CONSTRUCTOR,\n    /** Function (constructors are not included) */\n    FUNCTION,\n    /**\n
Property getter only */\n    PROPERTY_GETTER,\n    /**\n
Property setter only */\n    PROPERTY_SETTER,\n    /** Type usage */\n    TYPE,\n    /** Any expression */\n    EXPRESSION,\n    /** File */\n    FILE,\n    /** Type alias */\n    @SinceKotlin(\"1.1\")\n
TYPEALIAS\n}\n\n/**\n * Contains the list of possible annotation's retentions.\n * Determines how an\n
annotation is stored in binary output.\n */\n\npublic enum class AnnotationRetention {\n    /** Annotation isn't stored\n
in binary output */\n    SOURCE,\n    /** Annotation is stored in binary output, but invisible for reflection */\n
}

```

```

BINARY,\n  /** Annotation is stored in binary output and visible for reflection (default retention) */\n
RUNTIME\n}\n\n/**\n * This meta-annotation indicates the kinds of code elements which are possible targets of an
annotation.\n */\n * If the target meta-annotation is not present on an annotation declaration, the annotation is
applicable to the following elements:\n * [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE],
[VALUE_PARAMETER], [CONSTRUCTOR],
[FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].\n */\n * @property allowedTargets list of
allowed annotation targets\n
*/\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@MustBeDocumented\npublic annotation class
Target(vararg val allowedTargets: AnnotationTarget)\n\n/**\n * This meta-annotation determines whether an
annotation is stored in binary output and visible for reflection. By default, both are true.\n */\n * @property value
necessary annotation retention (RUNTIME, BINARY or SOURCE)\n
*/\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Retention(val value:
AnnotationRetention = AnnotationRetention.RUNTIME)\n\n/**\n * This meta-annotation determines that an
annotation is applicable twice or more on a single code element\n
*/\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 *
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you may not use this file except in compliance with the License.\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 * 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 */\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 */\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("\nStep is zero.\n")\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\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
kotlin.IllegalArgumentException("\nStep is zero.\n")\n}\n\n"/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n *
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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 "\nAS IS\n" BASIS,\n *\n * WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, either express or implied.\n
*\n * See the License for the specific language governing permissions and\n * limitations under the License.\n
*/\n\npackage kotlin.reflect\n\n/**\n * Represents a parameter passed to a function or a property getter/setter,\n *
including `this` and extension receiver parameters.\n *\n * @public interface KParameter : KAnnotatedElement {\n
/>\n * 0-based index of this parameter in the parameter list of its containing callable.\n *  \n *  public val index:
Int\n *\n * Name of this parameter as it was declared in the source code,\n *  or `null` if the parameter has
no name or its name is not available at runtime.\n *  \n *  Examples of nameless parameters include `this` instance for
member functions,\n *  extension receiver for extension functions or properties, parameters of Java methods\n *
compiled without the debug information, and others.\n *  \n *  public val name: String?\n *\n * Type of
this parameter. For a `vararg` parameter, this is the
type of the corresponding array,\n *  not the individual element.\n *  \n *  public val type: KType\n *\n * Kind of this parameter.\n *  \n *  public val kind: Kind\n *\n * Kind represents a particular position of the
parameter declaration in the source code,\n *  such as an instance, an extension receiver parameter or a value
parameter.\n *  \n *  public enum class Kind {\n *\n * Instance required to make a call to the member, or an
outer class instance for an inner class constructor. *\n *  INSTANCE,\n *\n * Extension receiver of an
extension function or property. *\n *  EXTENSION_RECEIVER,\n *\n * Ordinary named value parameter.
*\n *  VALUE,\n *  }\n *\n * `true` if this parameter is optional and can be omitted when making a call
via [KCallable.callBy], or `false` otherwise.\n *\n * A parameter is optional in any of the two cases:\n * 1.
The default value is provided at the declaration
of this parameter.\n * 2. The parameter is declared in a member function and one of the corresponding parameters
in the super functions is optional.\n *  \n *  public val isOptional: Boolean\n *\n * `true` if this parameter is
`vararg`.\n *\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/functions.html#variable-number-of-arguments-varargs)\n *
for more information.\n *  \n *  @SinceKotlin("1.1")\n *  public val isVararg: Boolean\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 * Represents a type. Type is usually either a class with optional type arguments,\n *  or a type parameter of some
declaration, plus nullability.\n *\n *  \n *\n *  public interface KType : KAnnotatedElement {\n *\n * The declaration of
the classifier used
in this type.\n *  \n * For example, in the type `List<String>` the classifier would be the [KClass] instance for [List].\n
*\n * Returns `null` if this type is not denotable in Kotlin, for example if it is an intersection type.\n *  \n *
*\n *  @SinceKotlin("1.1")\n *  public val classifier: KClassifier?\n *\n * Type arguments passed for the

```

parameters of the classifier in this type. For example, in the type `Array<out Number>` the only type argument is `out Number`.

In case this type is based on an inner class, the returned list contains the type arguments provided for the innermost class first, then its outer class, and so on. For example, in the type `Outer<A, B>.Inner<C, D>` the returned list is `[C, D, A, B]`.

```
@SinceKotlin("1.1")
public val arguments: List<KTypeProjection>
/** true if this type was marked nullable in the source code.
 * For Kotlin types, it means that `null` value is allowed to be represented by this type.
 * In practice it means that the type was declared with a question mark at the end.
 * For non-Kotlin types, it means the type or the symbol which was declared with this type is annotated with a runtime-retained nullability annotation such as [javax.annotation.Nullable].
 * Note that even if [isMarkedNullable] is false, values of the type can still be `null`.
 * This may happen if it is a type of the type parameter with a nullable upper bound:
 * fun <T> foo(t: T) {
 * // isMarkedNullable == false for t's type, but t can be null here when T = `Any?`
 * }
 * public val isMarkedNullable: Boolean
 */
 * 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.
 */
 public val variance: KVariance?,
 /** The type specified in the projection, or `null` if this is a star projection.
 */
 public val type: KType?) {
 public companion object {
 /** Star projection, denoted by the `*` character.
 * For example, in the type `KClass<*>`, `*` is the star projection.
 * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections) for more information.
 */
 public val STAR: KTypeProjection = KTypeProjection(null, null)
 /** Creates an invariant projection of a given type. Invariant projection is just the type itself, without any use-site variance modifiers applied to it.
 * For example, in the type `Set<String>`, `String` is an invariant projection of the type represented by the class `String`.
 */
 public fun invariant(type: KType): KTypeProjection =
 KTypeProjection(KVariance.INVARIANT, type)
 /** Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type.
 * For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.
 */
 public fun contravariant(type: KType): KTypeProjection =
 KTypeProjection(KVariance.IN, type)
 /** Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.
 * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.
 */
 public fun covariant(type: KType): KTypeProjection =
 KTypeProjection(KVariance.OUT, type)
 }
 }
}
"
/**
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 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
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 * 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.
 */
package kotlin.reflect
 * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*), or to a type in a projection (*use-site variance*).
 * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance) for more information.
 * @see [KTypeParameter.variance]
 * @see [KTypeProjection]
@SinceKotlin("1.1")
enum class KVariance {
 /** The affected type parameter or type is *invariant*, which means it has no variance applied to it.
 */
}

```

`*\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 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the "License");\n * you may not use this file except in`

compliance with the License.\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 * See the License for the specific language governing permissions and\n * limitations under the License.\n *\n *\n package kotlin.reflect\n\n /**\n * Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code.\n * Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`.\n *\n * Note that some Java visibilities such as package-private and protected (which also gives access to items from the same package)\n * cannot be represented in Kotlin, so there's no [KVisibility] value corresponding to them.\n *\n * See the [Kotlin language documentation](<https://kotlinlang.org/docs/reference/visibility-modifiers.html>)\n

* for more information.\n *\n @SinceKotlin("1.1")\nenum class KVisibility {\n\n /**\n * Visibility of declarations marked with the `public` modifier, or with no modifier at all.\n *\n PUBLIC,\n\n /**\n * Visibility of declarations marked with the `protected` modifier.\n *\n PROTECTED,\n\n /**\n * Visibility of declarations marked with the `internal` modifier.\n *\n INTERNAL,\n\n /**\n * Visibility of declarations marked with the `private` modifier.\n *\n PRIVATE,\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 @JsName("arrayIterator")\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\n\n null -> {\n\n val arr: Array<dynamic> = array\n\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 "ByteArray" -> byteArrayIterator(array)\n "ShortArray" ->
```

```
shortArrayIterator(array)\n "CharArray" -> charArrayIterator(array)\n "IntArray" -> intArrayIterator(array)\n "LongArray" -> longArrayIterator(array)\n "FloatArray" -> floatArrayIterator(array)\n "DoubleArray" ->
```

```
doubleArrayIterator(array)\n else -> throw IllegalArgumentException("Unsupported type argument for arrayIterator: $type")\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\n    NoSuchElementException("$index")\n}\n\n @JsName("byteArrayIterator")\ninternal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextByte() = if (index < array.size) array[index++] else throw\n    NoSuchElementException("$index")\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\n    NoSuchElementException("$index")\n}\n\n @JsName("charArrayIterator")\ninternal fun charArrayIterator(array: CharArray) = object : CharIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextChar() = if (index < array.size) array[index++] else throw\n    NoSuchElementException("$index")\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\n    NoSuchElementException("$index")\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("$index")\n}\n\n@JsName("doubleArrayIterator")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n    var index = 0\n    override fun hasNext()
= index < array.size\n    override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@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("$index")\n}\n\n@JsName("PropertyMetadata")\ninternal class
PropertyMetadata(@JsName("callableName") val name:
String)\n\n@JsName("noWhenBranchMatched")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName("subSequence")\ninternal fun subSequence(c: CharSequence,
startIndex: Int, endIndex: Int): CharSequence {\n    if (c is String) {\n        return c.substring(startIndex, endIndex)\n
    } else {\n        return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n
    }\n}\n\n@JsName("captureStack")\ninternal fun captureStack(baseClass: JsClass<in Throwable>, instance:
Throwable) {\n    if (js("Error").captureStackTrace) {\n        js("Error").captureStackTrace(instance,
instance::class.js);\n    } else {\n        instance.asDynamic().stack = js("new Error()").stack;\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@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\n    override fun
hashCode(): Int {\n        return c\n    }\n\n    override fun toString(): String {\n        return
js("this.c").unsafeCast<Char>().toString()\n    }\n\n    override fun compareTo(other: Int): Int {\n        return
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
* 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@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@JsName("longArrayOf")\ninternal fun longArrayOf() =
withType("LongArray",
js("[]").slice.call(arguments))\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 * 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 * The [lock] parameter is
ignored.\n */\n\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\n  val srcLen: Int =
src.length\n  val dstLen: Int = dst.length\n
  var index: Int = 0\n  while (index < srcLen && index < dstLen) dst[index] = src[index++]\n  return
dst\n}\n\n\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\n  val
result = source.slice(0, newSize)\n  copyArrayType(source, result)\n  var index: Int = source.length\n  if
(newSize > index) {\n    result.length = newSize\n    while (index < newSize) result[index++] = defaultValue\n
  }\n  return result\n}\n\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic
{\n  val result = array.slice()\n  result.length += collection.size\n  copyArrayType(array, result)\n  var index: Int
= array.length\n  for (element in collection) result[index++] = element\n  return result\n}\n\n\ninternal fun <T>
fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n  var index = startIndex\n
for (element in collection) dst[index++] = element\n  return
dst\n}\n\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n  if (from.`$type$` != undefined)
{\n    to.`$type$` = from.`$type$`\n  }\n}\n\n\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) =
js(`Kotlin`).isType(obj, jsClass)", /*\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\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n@JsName(`"CoroutineImpl"`)
\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{\n  protected var state = 0\n  protected var exceptionState = 0\n  protected var result: Any? = null\n  protected
var exception: Throwable? = null\n  protected var finallyPath: Array<Int>? = null\n\n  public override val context:
CoroutineContext = resultContinuation.context\n\n

```

```

private var intercepted_: Continuation<Any?>? = null\n\n public fun intercepted(): Continuation<Any?> =\n
intercepted_\n      ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n      .also {
intercepted_ = it }\n\n override fun resumeWith(result: Result<Any?>) {\n      var current = this\n      var
currentResult: Any? = result.getOrNull()\n      var currentException: Throwable? = result.exceptionOrNull()\n\n
// This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n
while (true) {\n      with(current) {\n      val completion = resultContinuation\n\n      // Set result and
exception fields in the current continuation\n      if (currentException == null) {\n      this.result =
currentResult\n      } else {\n      state = exceptionState\n      exception
= currentException\n      }\n\n      try {\n      val outcome = doResume()\n      if
(outcome === COROUTINE_SUSPENDED) return\n      currentResult = outcome\n
currentException = null\n      } catch (exception: dynamic) { // Catch all exceptions\n
currentResult = null\n      currentException = exception.unsafeCast<Throwable>()\n      }\n\n
releaseIntercepted() // this state machine instance is terminating\n\n      if (completion is CoroutineImpl) {\n
// unrolling recursion via loop\n      current = completion\n      } else {\n      // top-
level completion reached -- invoke and return\n      currentException?.let {\n
completion.resumeWithException(it)\n      } ?: completion.resume(currentResult)\n      return\n
}\n      }\n      }\n      }\n\n private fun releaseIntercepted() {\n      val intercepted = intercepted_\n
if (intercepted != null && intercepted != this) {\n
context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n      }\n      this.intercepted_ =
CompletedContinuation // just in case\n      }\n\n protected abstract fun doResume(): Any?\n\n\ninternal object
CompletedContinuation : Continuation<Any?> {\n      override val context: CoroutineContext\n      get() =
error(\`"This continuation is already complete"\`)\n\n      override fun resumeWith(result: Result<Any?>) {\n
error(\`"This continuation is already complete"\`)\n      }\n\n      override fun toString(): String = \`"This continuation is
already complete"\`\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: Suppress(\`"UNCHECKED_CAST"\`, \`"RedundantVisibilityModifier"\`)\n      *\n      * package
kotlin\n      *\n      * import kotlin.contracts.*\n      * import kotlin.internal.InlineOnly\n      * import kotlin.jvm.JvmField\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      * @Suppress(\`"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS"\`)\n      * @SinceKotlin(\`"1.3"\`)\n
*\n      * public inline class Result<out T> @PublishedApi internal constructor(\n      * @PublishedApi\n      * internal val value:
Any?>): Serializable {\n      * // discovery\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      * * 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      * // value & exception retrieval\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 `getOrNull { null }` (see [getOrNull]) 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      * * 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      * * 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      * ^\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      @InlineOnly\\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      @InlineOnly\\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/**\\n * Creates an instance of internal marker [Result.Failure] class to\\n *
 make sure that this class is not exposed in ABI.\\n *\\n @PublishedApi\\n @SinceKotlin(\"1.3\")\\n internal 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 @PublishedApi\\n @SinceKotlin(\"1.3\")\\n internal
 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 @InlineOnly\\n @SinceKotlin(\"1.3\")\\n public 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 @InlineOnly\\n @SinceKotlin(\"1.3\")\\n public 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 throws the
 encapsulated [Throwable] exception\\n * if it is [failure][Result.isFailure].\\n *\\n * This function is a shorthand for
 `getOrNull { throw it }` (see [getOrNull]).\\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/**\\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>.getOrNull(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/**\\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 `getOrNull { defaultValue }` (see [getOrNull]).\\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/**\\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// transformation\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 * See [mapCatching] for an alternative that
encapsulates exceptions.\n *\n@InlineOnly\n@SinceKotlin("1.3")\npublic 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/**\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 * See [map] for an alternative that
rethrows exceptions from `transform` function.\n *\n@InlineOnly\n@SinceKotlin("1.3")\npublic 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/**\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 * See [recoverCatching] for
an alternative that encapsulates exceptions.\n *\n@InlineOnly\n@SinceKotlin("1.3")\npublic 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/**\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 * See [recover] for an alternative that rethrows exceptions.\n
*\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform:
(exception: Throwable) -> R): Result<R> {\n val value = value // workaround for inline classes BE bug\n return
when (val exception = 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")\npublic 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/**\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")\npublic 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"/\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\nnimport kotlin.coroutines.intrinsics.*\nimport 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")\npublic
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/**\n * Classes and interfaces marked with this annotation are restricted when

```

used as receivers for extension `suspend` functions. These `suspend` extensions can only invoke other member or extension `suspend` functions on this particular receiver and are restricted from calling arbitrary suspension functions.

```
@SinceKotlin("1.3")@Target(AnnotationTarget.CLASS)@Retention(AnnotationRetention.BINARY)public annotation class RestrictsSuspension
```

Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.

```
@SinceKotlin("1.3")@InlineOnlypublic inline fun <T> Continuation<T>.resume(value: T): Unit = resumeWith(Result.success(value))
```

Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the last suspension point.

```
@SinceKotlin("1.3")@InlineOnlypublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =
```

```
resumeWith(Result.failure(exception))
```

Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.

```
@SinceKotlin("1.3")@InlineOnlypublic 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        override fun
```

```
resumeWith(result: Result<T>) =\n        resumeWith(result)\n    }
```

Creates a coroutine without a 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 the coroutine completes with a result or an exception. Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].

```
@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")public fun <T> (suspend () -> T).createCoroutine(\n    completion: Continuation<T>): Continuation<Unit> =\n    SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)
```

Creates a 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 the coroutine completes with a result or an exception. Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].

```
@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")public fun <R, T> (suspend R.() -> T).createCoroutine(\n    receiver: R,\n    completion: Continuation<T>): Continuation<Unit> =\n    SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
```

```
COROUTINE_SUSPENDED)
```

Starts a coroutine without a receiver and with result type [T]. This function creates and starts a new, fresh instance of suspendable computation every time it is invoked. The [completion] continuation is invoked when the coroutine completes with a result or an exception.

```
@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")public fun <T> (suspend () -> T).startCoroutine(\n    completion: Continuation<T>) {\n    createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}
```

Starts a coroutine with receiver type [R] and result type [T]. This function creates and starts a new, fresh instance of suspendable computation every time it is invoked. The [completion] continuation is invoked when the coroutine completes with a result or an exception.

```
@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")public fun <R, T> (suspend R.() -> T).startCoroutine(\n    receiver: R,\n    completion: Continuation<T>) {\n    createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}
```

Obtains the current continuation instance inside suspend functions and suspends the currently running coroutine. In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in the same stack-frame

where the suspension function is run or asynchronously later in the same thread or from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].

```
@SinceKotlin("1.3")@InlineOnlypublic suspend inline fun <T> suspendCoroutine(crossinline block:
```

```

(Continuation<T>) -> Unit): T =\n    suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->\n        val
safe = SafeContinuation(c.intercepted())\n        block(safe)\n        safe.getOrThrow()\n    }\n\n/**\n * Returns the
context of the current coroutine.\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"/**\n * Copyright 2010-2018 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\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 * 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@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 * 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@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/**\n * Creates unintercepted coroutine without receiver and with
result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is
invoked.\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation]
instance.\n * The [completion] continuation is invoked when coroutine completes with result or exception.\n * This
function returns unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in
the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the
completion's [CoroutineContext].\n * It is the
invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this
function may get invoked in an arbitrary context.\n * [Continuation.intercepted] can be used to acquire the
intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n
* both the coroutine and [completion] happens in the invocation context established by\n *
[ContinuationInterceptor].\n * Repeated invocation of any resume function on the resulting continuation corrupts
the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n
*\n@SinceKotlin("1.3")\npublic actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\n    completion:
Continuation<T>)\n): Continuation<Unit> =\n    // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n
if (this.asDynamic().length == 2) {\n        // When `suspended` is true the continuation is created, but not
executed\n
        this.asDynamic()(completion, true)\n    } else {\n        createCoroutineFromSuspendFunction(completion) {\n
this.asDynamic()(completion)\n    }\n    }\n\n/**\n * Creates unintercepted 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 * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes with result or exception.\n * This function returns unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this function may get invoked in an arbitrary context.\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion] happens in the invocation context established by\n * [ContinuationInterceptor].\n * Repeated invocation of any resume function on the resulting continuation corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n */\n @SinceKotlin("1.3")\n public actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(\n receiver: R,\n completion: Continuation<T>)\n : Continuation<Unit> =\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n if (this.asDynamic().length == 3) {\n // When `suspended` is true the continuation is created, but not executed\n this.asDynamic()(receiver, completion, true)\n } else {\n createCoroutineFromSuspendFunction(completion) {\n this.asDynamic()(receiver, completion)\n }\n }\n }\n /**\n * Intercepts this continuation with [ContinuationInterceptor].\n * This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context],\n * invokes [ContinuationInterceptor.interceptContinuation], caches and returns the result.\n * If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.\n */\n @SinceKotlin("1.3")\n public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =\n (this as? CoroutineImpl)?.intercepted() ?: this\n\n private inline fun <T> createCoroutineFromSuspendFunction(\n completion: Continuation<T>,\n crossinline block: () -> Any?)\n : Continuation<Unit> {\n @Suppress("UNCHECKED_CAST")\n return object : CoroutineImpl(completion as Continuation<Any?>)\n {\n override fun doResume(): Any? {\n exception?.let { throw it }\n return block()\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\n package kotlin.js\n\n // Mirrors signature from JS IR BE\n // Used for js.translator/testData/box/number/mulInt32.kt\n @library\n @JsName("imulEmulated")\n internal fun imul(x: Int, y: Int): Int = definedExternally\n\n internal inline fun isArrayish(o: dynamic) = js("Kotlin").isArrayish(o)\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\n package kotlin.js\n\n @kotlin.internal.InlineOnly\n internal inline fun jsDeleteProperty(obj: Any, property: Any) {\n js("delete obj[property]")\n }\n\n @kotlin.internal.InlineOnly\n internal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\n js("lhs | rhs").unsafeCast<Int>()\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.math\n\n /**\n * Returns this value with the sign bit same as of the [sign] value.\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n @SinceKotlin("1.2")\n public actual fun Double.withSign(sign: Double): Double {\n val thisSignBit = js("Kotlin").doubleSignBit(this).unsafeCast<Int>()\n val newSignBit = js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()\n return if (thisSignBit == newSignBit) this else -this\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 package 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 @SinceKotlin("1.2")\n @library("doubleToBits")\n public actual fun Double.toBits(): Long =

```

definedExternally\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@SinceKotlin(\"1.2\")\n@library(\"doubleToRawBits\")\npublic actual fun Double.toRawBits(): Long =
definedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n *\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Double.Companion.fromBits(bits: Long): Double = js(\"Kotlin\").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n *\n@SinceKotlin(\"1.2\")\n@library(\"floatToBits\")\npublic actual fun Float.toBits(): Int =
definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout,\n * preserving `NaN` values exact layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n *\n@SinceKotlin(\"1.2\")\n@library(\"floatToRawBits\")\npublic actual fun Float.toRawBits(): Int =
definedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n *\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits: Int): Float =
js(\"Kotlin\").floatFromBits(bits).unsafeCast<Float>()\n\ninternal inline fun Long(low: Int, high: Int) =
js(\"Kotlin\").Long.fromBits(low, high).unsafeCast<Long>()\ninternal inline val Long.low: Int get() =
this.asDynamic().getLowBits().unsafeCast<Int>()\ninternal inline val Long.high: Int get() =
this.asDynamic().getHighBits().unsafeCast<Int>()\";/*\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 *\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@SinceKotlin(\"1.2\")\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\";/*\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 *\npackage kotlin.collections\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.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-place.\n *\npublic actual fun <T> MutableList<T>.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 * 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 *\npackage kotlin.text\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 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 2010-2019 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 *\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 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@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@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@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 * 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@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            if ((element as Any?) !is UInt) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UInt): Int {\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@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            if ((element as Any?) !is ULong) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: ULong): Int {\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@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            if ((element as Any?) !is UByte) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UByte): Int {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort> {\n    return object : AbstractList<UShort>(),
```

```

RandomAccess {
    override val size: Int get() = this@asList.size
    override fun isEmpty(): Boolean = this@asList.isEmpty()
    override fun contains(element: UShort): Boolean = this@asList.contains(element)
    override fun get(index: Int): UShort {
        AbstractList.checkElementIndex(index, size)
        return this@asList[index]
    }
    override fun indexOf(element: UShort): Int {
        if ((element as Any?) !is UShort) return -1
        return this@asList.indexOf(element)
    }
    override fun lastIndexOf(element: UShort): Int {
        if ((element as Any?) !is UShort) return -1
        return this@asList.lastIndexOf(element)
    }
}

@file: Suppress("DEPRECATION")
package jquery.ui
import jquery.UI
import jquery.JQuery
import kotlin.js.Json
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.buttonset(): JQuery = asDynamic().buttonset()
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.dialog(): JQuery = asDynamic().dialog()
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.dialog(params: Json): JQuery = asDynamic().dialog(params)
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.dialog(mode: String, param: String): Any? = asDynamic().dialog(mode, param)
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.dialog(mode: String): JQuery = asDynamic().dialog(mode)
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.dialog(mode: String, param: String, value: Any?): JQuery = asDynamic().dialog(mode, param, value)
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.button(): JQuery = asDynamic().button()
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.accordion(): JQuery = asDynamic().accordion()
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.draggable(params: Json): JQuery = asDynamic().draggable(params)
@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.selectable(): JQuery = asDynamic().selectable()

/*
 * 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
import kotlin.annotation.AnnotationTarget.*
@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)
@Deprecated("Use `external` modifier instead", level = DeprecationLevel.ERROR)
public annotation class native(public val name: String = "")
@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeGetter
@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeSetter
@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeInvoke
@Target(CLASS, FUNCTION, PROPERTY)
internal annotation class library(public val name: String = "")
@Target(CLASS)
internal annotation class marker

/**
 * Gives a declaration (a function, a property or a class) specific name in JavaScript.
 * This may be useful in the following cases:
 * - There are two functions for which the compiler gives same name in JavaScript, you can mark one with `@JsName(...)` to prevent the compiler from reporting error.
 * - You are writing a JavaScript library in Kotlin. The compiler produces mangled names for functions with parameters, which is unnatural for usual JavaScript developer. You can put `@JsName(...)` on functions you want to be available from JavaScript.
 * - For some reason you want to rename declaration, e.g. there's common term in JavaScript for a concept provided by the declaration, which is uncommon in Kotlin.
 * Example:
 * ```kotlin
 * class Person(val name: String) {
 *     fun hello() {
 *         println("Hello $name!")
 *     }
 * }
 * ```
 */

```

```

@JsName("helloWithGreeting") fun hello(greeting: String) { println("$greeting
$name!") }

```

It's required to denote a valid JavaScript identifier.

```

@Retention(AnnotationRetention.BINARY) @Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR,
PROPERTY_GETTER, PROPERTY_SETTER) public actual annotation class JsName(actual val name:
String)

```

Denotes an `external` declaration that must be imported from native JavaScript library.

The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.

The annotation can be used on top-level external declarations (classes, properties, functions) and files.

In case of file (which can't be `external`) the following rule applies: all the declarations in the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.

Example:

```

kotlin @JsModule("jquery") external abstract class JQuery() { // some declarations here }
@JsModule("jquery") external fun JQuery(element: Element): JQuery

```

It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.

```

@Retention(AnnotationRetention.BINARY) @Target(CLASS, PROPERTY, FUNCTION, FILE) public
annotation class JsModule(val import: String)

```

Denotes an `external` declaration that can be used without module system.

By default, an `external` declaration is available regardless your target module system.

However, by applying [JsModule] annotation you can make a declaration unavailable to plain module system.

Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package.

To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.

For example:

```

kotlin @JsModule("jquery") @JsNonModule @JsName("$") external abstract class JQuery() { // some declarations here }
@JsModule("jquery") @JsNonModule @JsName("$") external fun JQuery(element: Element): JQuery

```

See JsModule

```

@Retention(AnnotationRetention.BINARY) @Target(CLASS, PROPERTY, FUNCTION, FILE) public
annotation class JsNonModule

```

Adds prefix to `external` declarations in a source file.

JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.

The compiler turns references to `external` declarations either to plain unprefix 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

```

It must be a sequence of valid JavaScript identifiers separated by the `.` character.

Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.\$.f`.

```

@Retention(AnnotationRetention.BINARY) @Target(AnnotationTarget.FILE) public
annotation class JsQualifier(val value: String)

```

Marks experimental JS export annotations.

Note that behaviour of these annotations will likely be changed in the future.

Usages of such annotations will be reported as warnings unless an explicit opt-in with the [OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`, or with the `-Xopt-in=kotlin.js.ExperimentalJsExport` compiler option is given.

```

@Suppress("DEPRECATION") @Experimental(level = Experimental.Level.WARNING) @RequiresOptIn(level =
RequiresOptIn.Level.WARNING) @SinceKotlin("1.3") public
annotation class ExperimentalJsExport

```

Exports top-level declaration.

Used in future IR-based backend.

Has no effect in current JS backend.

```

*/\n@ExperimentalJsExport\n@SinceKotlin("1.3")\n@Retention(AnnotationRetention.BINARY)\n@Target(CLA
SS, PROPERTY, FUNCTION, FILE)\npublic 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 */\n\npackage
kotlin.jvm\n\n// these are used in common generated code in stdlib\n\n// TODO: find how to deprecate these
ones\n\n@Target(AnnotationTarget.FIELD)\n@Retention(AnnotationRetention.SOURCE)\npublic actual
annotation class Volatile\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation
class Synchronized\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 skeletal implementation of the
[MutableCollection] interface.\n * \n * @param E the type of elements contained in the collection. The collection is
invariant on its element type.\n */\n\npublic actual abstract
class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(),
MutableCollection<E> {\n\n    actual abstract override fun add(element: E): Boolean\n\n    actual override fun
remove(element: E): Boolean {\n        val iterator = iterator()\n        while (iterator.hasNext()) {\n            if
(iterator.next() == element) {\n                iterator.remove()\n                return true\n            }\n        }\n        return
false\n    }\n\n    actual override fun addAll(elements: Collection<E>): Boolean {\n        var modified = false\n        for (element in elements) {\n            if (add(element)) modified = true\n        }\n        return modified\n    }\n\n    actual override fun removeAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it in elements }\n\n    actual override fun retainAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it !in elements }\n\n    actual override fun clear(): Unit {\n        val iterator = this.iterator()\n        while (iterator.hasNext()) {\n            iterator.next()\n            iterator.remove()\n        }\n    }\n\n    @JsName("toJSON")\n    open fun toJSON(): Any =
this.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/**\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 on 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\n    abstract override
fun removeAt(index: Int): E\n\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        add(size, element)\n        return
true\n    }\n\n    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\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        removeRange(0, size)\n    }\n\n    actual
override fun removeAll(elements: Collection<E>): Boolean = removeAll { it in elements }\n\n    actual override fun
retainAll(elements: Collection<E>): Boolean = removeAll { it !in elements }\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        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
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    * Compares this list with another list instance with the ordered structural equality.\n    * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\n    */\n    override fun equals(other: Any?): Boolean {\n    if (other === this) return true\n    if (other !is List<*>) return false\n    return AbstractList.orderedEquals(this, other)\n    }\n    /**\n    * Returns the hash code value for this list.\n    */\n    override fun hashCode(): Int = AbstractList.orderedHashCode(this)\n\n    private open inner class IteratorImpl : MutableIterator<E> {\n    /**\n    the index of the item that will be returned on the next call to [next]`() `*\n    protected var index = 0\n    /**\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    override fun hasNext(): Boolean = index < size\n    override fun next(): E {\n    if (!hasNext()) throw NoSuchElementException()\n    last = index++\n    return get(last)\n    }\n    override fun remove()\n    {\n    check(last != -1) { \"Call next() or previous() before removing element from the iterator.\" }\n    removeAt(last)\n    index = last\n    last = -1\n    }\n    }\n    /**\n    * Implementation of `MutableListIterator` for abstract lists.\n    */\n    private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\n    init {\n    AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\n    this.index = index\n    }\n    override fun hasPrevious(): Boolean = index > 0\n    override fun nextIndex(): Int = index\n    override fun previous(): E {\n    if (!hasPrevious()) throw NoSuchElementException()\n    last = --index\n    return get(last)\n    }\n    override fun previousIndex(): Int = index - 1\n    override fun add(element: E) {\n    add(index, element)\n    index++\n    last = -1\n    }\n    override fun set(element: E) {\n    check(last != -1) { \"Call next() or previous() before updating element value with the iterator.\" }\n    this@AbstractMutableList[last] = element\n    }\n    }\n    private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {\n    private var _size: Int = 0\n    init {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\n    this._size = toIndex - fromIndex\n    }\n    override fun add(index: Int, element: E) {\n    AbstractList.checkPositionIndex(index, _size)\n    list.add(fromIndex + index, element)\n    _size++\n    }\n    override fun get(index: Int): E {\n    AbstractList.checkElementIndex(index, _size)\n    return list[fromIndex + index]\n    }\n    override fun removeAt(index: Int): E {\n    AbstractList.checkElementIndex(index, _size)\n    val result = list.removeAt(fromIndex + index)\n    _size--\n    return result\n    }\n    override fun set(index: Int, element: E): E {\n    AbstractList.checkElementIndex(index, _size)\n    return list.set(fromIndex + index, element)\n    }\n    override val size: Int get() = _size\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 AbstractMap\n    * Copyright 2007 Google Inc.\n    */\n    /**\n    * Provides a skeletal implementation of the [MutableMap] interface.\n    * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.\n    * @param K the type of map keys. The map is invariant on its key type.\n    * @param V the type of map values. The map is invariant on its value type.\n    */\n    /**\n    * public actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(), MutableMap<K, V> {\n    /**\n    * A mutable [Map.Entry] shared by several [Map] implementations.\n    */\n    /**\n    * internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {\n    constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)\n    private var _value = value\n    override val value: V get() = _value\n    override fun setValue(newValue: V): V {\n    val oldValue = this._value\n    this._value = newValue\n    return oldValue\n    }\n    override fun

```

```

hashCode(): Int = entryHashCode(this)\n      override fun toString(): String = entryToString(this)\n      override
fun equals(other: Any?): Boolean = entryEquals(this, other)\n\n    }\n\n    actual override fun clear() {\n
entries.clear()\n    }\n\n    private var _keys: MutableSet<K>? = null\n    actual override val keys: MutableSet<K>\n
    get() {\n        if (_keys == null) {\n            _keys = object : AbstractMutableSet<K>() {\n
override fun add(element: K): Boolean = throw UnsupportedOperationException("Add is not supported on
keys")\n            override fun clear() {\n                this@AbstractMutableMap.clear()\n            }\n\n
        override
operator fun contains(element: K): Boolean = containsKey(element)\n\n            override operator fun iterator():
MutableIterator<K> {\n                val entryIterator = entries.iterator()\n                return object :
MutableIterator<K> {\n                    override fun hasNext(): Boolean = entryIterator.hasNext()\n
                    override fun next(): K = entryIterator.next().key\n                    override fun remove() =
entryIterator.remove()\n                }\n            }\n\n            override fun remove(element: K): Boolean
{\n                if (containsKey(element)) {\n                    this@AbstractMutableMap.remove(element)\n
                }\n                return true\n            }\n\n            return false\n        }\n\n        override val
size: Int get() = this@AbstractMutableMap.size\n    }\n\n    }\n\n    actual abstract override fun put(key: K, value: V): V?\n\n    actual override fun
putAll(from: Map<out K, V>) {\n        for ((key, value) in from) {\n            put(key, value)\n        }\n    }\n\n    private var _values: MutableCollection<V>? = null\n    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\n            override operator
fun contains(element: V): Boolean = containsValue(element)\n\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            override val size: Int get() = this@AbstractMutableMap.size\n        }\n        // TODO:
should we implement them this way? Currently it's unspecified in JVM\n    }\n\n    override fun equals(other:
Any?): Boolean {\n        if (this === other) return true\n        if (other !is Collection<*>) return
false\n        return AbstractList.orderedEquals(this, other)\n    }\n\n    override fun
hashCode(): Int = AbstractList.orderedHashCode(this)\n    }\n\n    }\n\n    return _values!!\n    }\n\n    actual override fun remove(key: K): V? {\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    }\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.collections\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 on its element type.\n    *\n    public 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    * 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 kotlin.collections\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 resizable itself. * There is no speed advantage to pre-allocating array sizes in JavaScript, so this implementation does

```
not include any of the * capacity and "growth increment" concepts. *
public actual open class ArrayList<E>
internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>, RandomAccess
{
    /**
     * Creates an empty [ArrayList].
     */
    public actual constructor() : this(emptyArray()) {}
    /**
     * Creates an empty [ArrayList].
     * @param initialCapacity initial capacity (ignored)
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    public actual
    constructor(initialCapacity: Int = 0) : this(emptyArray()) {}
    /**
     * Creates an [ArrayList] filled from the
     [elements] collection.
     */
    public actual constructor(elements: Collection<E>) :
    this(elements.toArray<Any?>()) {}
    /** Does nothing in this ArrayList implementation.
     */
    public actual fun trimToSize() {}
    /** Does nothing in this ArrayList implementation.
     */
    public actual fun
    ensureCapacity(minCapacity: Int)
    {}
    actual override val size: Int get() = array.size
    @Suppress("UNCHECKED_CAST")
    actual
    override fun get(index: Int): E = array[rangeCheck(index)] as E
    actual override fun set(index: Int, element: E): E
    {
        rangeCheck(index)
        @Suppress("UNCHECKED_CAST")
        return array[index].apply {
            array[index] = element
        } as E
    }
    actual override fun add(element: E): Boolean {
        array.asDynamic().push(element)
        modCount++
        return true
    }
    actual override fun add(index:
    Int, element: E): Unit {
        array.asDynamic().splice(insertionRangeCheck(index), 0, element)
        modCount++
    }
    actual override fun addAll(elements: Collection<E>): Boolean {
        if
        (elements.isEmpty()) return false
        array += elements.toArray<Any?>()
        modCount++
        return true
    }
    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {
        insertionRangeCheck(index)
        if (index == size) return addAll(elements)
        if (elements.isEmpty()) return false
        when (index) {
            size -> return addAll(elements)
            0 -> array = elements.toArray<Any?>() + array
            else ->
            array = array.copyOfRange(0, index).asDynamic().concat(elements.toArray<Any?>(),
            array.copyOfRange(index, size))
        }
        modCount++
        return true
    }
    actual override fun
    removeAt(index: Int): E {
        rangeCheck(index)
        modCount++
        return if (index == lastIndex)
        array.asDynamic().pop()
        else
        array.asDynamic().splice(index, 1)[0]
    }
    actual override fun
    remove(element: E): Boolean {
        for (index in array.indices) {
            if (array[index] == element) {
                array.asDynamic().splice(index, 1)
                modCount++
                return true
            }
        }
        return
        false
    }
    actual override fun
    removeRange(fromIndex: Int, toIndex: Int) {
        modCount++
        array.asDynamic().splice(fromIndex, toIndex - fromIndex)
    }
    actual override fun clear() {
        array =
        emptyArray()
        modCount++
    }
    actual override fun indexOf(element: E): Int =
    array.indexOf(element)
    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)
    actual override fun toString() = arrayToString(array)
    override fun toArray(): Array<Any?> =
    js("[ ]").slice.call(array)
    private fun rangeCheck(index: Int) = index.apply {
        AbstractList.checkElementIndex(index, size)
    }
    private fun insertionRangeCheck(index: Int) = index.apply {
        AbstractList.checkPositionIndex(index, size)
    }
}
/**
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 * 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
internal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {
    if
    (getStableSortingIsSupported()) {
        array.asDynamic().sort(comparison)
    } else {
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))
    }
}
internal fun
<T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {
    if (getStableSortingIsSupported()) {
        val comparison = { a: T, b: T -> comparator.compare(a, b) }
        array.asDynamic().sort(comparison)
    } else {
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)
    }
}
internal fun
<T : Comparable<T>> sortArray(array: Array<out T>) {
    if (getStableSortingIsSupported()) {
        val
```

```

comparison = { a: T, b: T -> a.compareTo(b) } \n    array.asDynamic().sort(comparison)\n } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\n } \n} \n\nprivate
var _stableSortingIsSupported: Boolean? = null\nprivate fun getStableSortingIsSupported(): Boolean {\n
_stableSortingIsSupported?.let { return it } \n    _stableSortingIsSupported = false\n    val array =
js("\\[\\]").unsafeCast<Array<Int>>()\n // known implementations may use stable sort for arrays of up to 512
elements\n // so we create slightly more elements to test stability\n for (index in 0 until 600)
array.asDynamic().push(index)\n    val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) } \n
array.asDynamic().sort(comparison)\n for (index in 1 until array.size) {\n    val a = array[index - 1]\n    val b
= array[index]\n    if ((a and 3) == (b and 3) && a >= b) return false\n    } \n    _stableSortingIsSupported = true\n
return true\n } \n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator:
Comparator<in T>) {\n    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n    val result =
mergeSort(array,
buffer, start, endInclusive, comparator)\n    if (result !== array) {\n        result.forEachIndexed { i, v -> array[i] = v
}\n    } \n} \n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer:
Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n    if (start == end) {\n        return
array\n    } \n    val median = (start + end) / 2\n    val left = mergeSort(array, buffer, start, median, comparator)\n
val right = mergeSort(array, buffer, median + 1, end, comparator)\n    val target = if (left === buffer) array else
buffer\n    // Merge.\n    var leftIndex = start\n    var rightIndex = median + 1\n    for (i in start..end) {\n        when
{\n            leftIndex <= median && rightIndex <= end -> {\n                val leftValue = left[leftIndex]\n                val
rightValue = right[rightIndex]\n                if (comparator.compare(leftValue, rightValue) <= 0) {\n
target[i] = leftValue\n
leftIndex++\n                } else {\n                    target[i] = rightValue\n                    rightIndex++\n
}\n                leftIndex <= median -> {\n                    target[i] = left[leftIndex]\n                    leftIndex++\n
}\n                else /* rightIndex <= end */ -> {\n                    target[i] = right[rightIndex]\n                    rightIndex++\n
}\n                Unit // TODO: Fix KT-31506\n            } \n        } \n    } \n    return target\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 @UseExperimental(ExperimentalUnsignedTypes::class)\n @SinceKotlin("1.3")\n @kotlin.js
.JsName("contentDeepHashCodeImpl")\n internal fun <T> Array<out T>.contentDeepHashCodeImpl(): Int {\n
var result = 1\n    for (element
in this) {\n        val elementHash = when {\n            element == null -> 0\n            isArrayish(element) ->
(element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n            element is UByteArray ->
element.contentHashCode()\n            element is UShortArray -> element.contentHashCode()\n            element is
UIntArray -> element.contentHashCode()\n            element is ULongArray -> element.contentHashCode()\n
            else -> element.hashCode()\n        } \n    } \n    result = 31 * result + elementHash\n } \n    return
result\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.collections\n\n internal interface EqualityComparator {\n    /*\n    * Subclasses must override
to return a value indicating\n    * whether or not two keys or values are equal.\n
*/\n    abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n    /*\n    * Subclasses must override to
return the hash code of a given key.\n    */\n    abstract fun getHashCode(value: Any?): Int\n\n    object GetHashCode
: EqualityComparator {\n        override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n\n
override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\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
AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\n package kotlin.collections\n\n import
kotlin.collections.MutableMap.MutableEntry\n\n /*\n * Hash table based implementation of the [MutableMap]
interface.\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values]

```


and [entries] collections.\n

```
*^/npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n\n private\n inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n\n override fun add(element:\n MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n\n override fun clear() {\n this@HashMap.clear()\n }\n\n override operator fun contains(element:\n MutableEntry<K, V>): Boolean = containsEntry(element)\n\n override operator fun iterator():\n MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n override fun remove(element:\n MutableEntry<K, V>): Boolean {\n if (contains(element)) {\n this@HashMap.remove(element.key)\n return true\n }\n return false\n }\n\n override\n val size: Int get() = this@HashMap.size\n }\n\n /**\n * Internal implementation of the map: either string-\n based or hashCode-based.\n
```

```
*^/n private val internalMap: InternalMap<K, V>\n\n private val equality: EqualityComparator\n\n internal\n constructor(internalMap: InternalMap<K, V>) : super() {\n this.internalMap = internalMap\n this.equality =\n internalMap.equality\n }\n\n /**\n * Constructs an empty [HashMap] instance.\n */\n\n actual constructor()\n : this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n /**\n * Constructs an empty [HashMap]\n instance.\n */\n\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load\n factor (ignored)\n */\n\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\n */\n\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\n actual\n constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : this() {\n // This implementation of HashMap has no\n need of load factors or capacities.\n require(initialCapacity >= 0) {\n\n "Negative initial capacity: $initialCapacity"\n }\n\n require(loadFactor >= 0) {\n "Non-positive load factor:\n $loadFactor"\n }\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\n actual\n constructor(original: Map<out K, V>) : this() {\n this.putAll(original)\n }\n\n actual override fun clear() {\n\n internalMap.clear()\n\n // structureChanged(this)\n }\n\n actual override fun containsKey(key: K): Boolean\n = internalMap.contains(key)\n\n actual override fun containsValue(value: V): Boolean = internalMap.any {\n\n equality.equals(it.value, value)\n }\n\n private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =\n null\n\n actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n get() {\n if\n (_entries == null) {\n\n _entries = createEntrySet()\n\n }\n\n return _entries!!\n }\n\n protected open fun createEntrySet():\n\n MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n actual override operator fun get(key: K): V? =\n\n internalMap.get(key)\n\n actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n actual\n\n override fun remove(key: K): V? = internalMap.remove(key)\n\n actual override val size: Int get() =\n\n internalMap.size\n\n }\n\n /**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which\n stores the keys as properties of\n * JS object without hashing them.\n */\n\n ^/npublic fun <V> stringMapOf(vararg pairs:\n\n Pair<String, V>): HashMap<String, V> {\n\n return HashMap<String,\n\n V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n\n }, "/*\n * Copyright 2010-2018\n JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n Apache 2.0 license that can be found in the license/LICENSE.txt\n file.\n */\n\n * Based on GWT HashSet\n * Copyright 2008 Google Inc.\n */\n\n ^/n\n\n package\n\n kotlin.collections\n\n /**\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n */\n\n ^/npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\n\n private val map:\n\n HashMap<E, Any>\n\n /**\n * Constructs a new empty [HashSet].\n */\n\n actual constructor() {\n\n map\n = HashMap<E, Any>()\n\n }\n\n /**\n * Constructs a new [HashSet] filled with the elements of the specified\n collection.\n */\n\n actual constructor(elements: Collection<E>) {\n\n map = HashMap<E,\n\n Any>(elements.size)\n\n addAll(elements)\n\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\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\n */\n\n ^/n\n
```

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@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {\n        map = HashMap<E,\nAny>(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 * LinkedHashSet.\n * @param map underlying map to use.\n */\n    internal constructor(map: HashMap<E, Any>) {\n        this.map =\nmap\n    }\n\n    actual override fun add(element: E): Boolean {\n        val old = map.put(element, this)\n        return\nold == null\n    }\n\n    actual override fun clear() {\n        map.clear()\n    }\n\n// public override fun clone(): Any\n{\n//     return HashSet<E>(this)\n// }\n\n    actual override operator fun contains(element: E): Boolean =\nmap.containsKey(element)\n\n    actual override fun isEmpty(): Boolean = map.isEmpty()\n\n    actual override fun\niterator(): MutableIterator<E>\n= 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 * Creates a new instance of the specialized\nimplementation of [HashSet] with the specified [String] elements,\n * which elements the keys as properties of JS\nobject without hashing them.\n */\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\n    return\nHashSet(stringMapOf<Any>()).apply { addAll(elements) }\n}\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and\nKotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\ncan be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT InternalHashMap\n * Copyright\n2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport\nkotlin.collections.MutableMap.MutableEntry\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n * A simple wrapper around JavaScriptObject\nto provide [java.util.Map]-like semantics for any\n * key type.\n * Implementation notes:\n * A key's\nhashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same\nhash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n */\ninternal class InternalHashMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V>\n{\n\n    private var backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n    private set\n\n    override fun put(key: K, value: V): V? {\n        val hashCode = equality.getHashCode(key)\n        val chainOrEntry\n= getChainOrEntryOrNull(hashCode)\n        if (chainOrEntry == null) {\n            // This is a new chain, put it to the\nmap.\n            backingMap[hashCode] = SimpleEntry(key, value)\n        } else {\n            if (chainOrEntry !is\nArray<*>) {\n                // It is an entry\n                val entry: SimpleEntry<K,\nV> = chainOrEntry\n                if (equality.equals(entry.key, key)) {\n                    return entry.setValue(value)\n                } else {\n                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n                }\n            }\n            size++\n            return null\n        }\n        } else {\n            // Chain already exists, perhaps key also\nexists.\n            val chain: Array<MutableEntry<K, V>> = chainOrEntry\n            val entry =\nchain.findEntryInChain(key)\n            if (entry != null) {\n                return entry.setValue(value)\n            }\n            chain.asDynamic().push(SimpleEntry(key, value))\n        }\n        size++\n\n    structureChanged(host)\n    return null\n}\n\n    override fun remove(key: K): V? {\n        val hashCode =\nequality.getHashCode(key)\n        val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n        if\n(chainOrEntry\n!is Array<*>) {\n            val entry: MutableEntry<K, V> = chainOrEntry\n            if (equality.equals(entry.key,\nkey)) {\n                jsDeleteProperty(backingMap, hashCode)\n                size--\n                return entry.value\n            }\n        } else {\n            return null\n        }\n        } else {\n            val chain: Array<MutableEntry<K, V>> =\nchainOrEntry\n            for (index in chain.indices) {\n                val entry = chain[index]\n                if\n(equality.equals(key, entry.key)) {\n                    if (chain.size == 1) {\n                        chain.asDynamic().length =\n0\n                        // remove the whole array\n                        jsDeleteProperty(backingMap, hashCode)\n                    }\n                    } else {\n                        // splice out the entry we're removing\n                        chain.asDynamic().splice(index, 1)\n                    }\n                }\n                size--\n                structureChanged(host)\n                return entry.value\n            }\n            return null\n        }\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n    override fun contains(key: K): Boolean = getEntry(key) !=

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```

null\n\n override fun get(key: K): V? = getEntry(key)?.value\n\n private fun getEntry(key: K): MutableEntry<K,
V>? {\n    val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n    if
(chainOrEntry !is Array<*>) {\n        val entry: MutableEntry<K, V> = chainOrEntry\n        if
(equality.equals(entry.key, key)) {\n            return entry\n        } else {\n            return null\n        }\n    }
else {\n        val chain: Array<MutableEntry<K, V>> = chainOrEntry\n        return
chain.findEntryInChain(key)\n    }\n\n private fun Array<MutableEntry<K, V>>.findEntryInChain(key:
K): MutableEntry<K, V>? =\n    firstOrNull { entry
-> equality.equals(entry.key, key) }\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n\n
return object : MutableIterator<MutableEntry<K, V>> {\n        var state = -1 // -1 not ready, 0 - ready, 1 -
done\n\n        val keys: Array<String> = js("Object").keys(backingMap)\n        var keyIndex = -1\n\n
var chainOrEntry: dynamic = null\n        var isChain = false\n        var itemIndex = -1\n        var lastEntry:
MutableEntry<K, V>? = null\n\n        private fun computeNext(): Int {\n            if (chainOrEntry != null &&
isChain) {\n                val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n
                if (++itemIndex < chainSize)\n                    return 0\n            }\n            if (++keyIndex < keys.size)\n
{\n                chainOrEntry = backingMap[keys[keyIndex]]\n                isChain = chainOrEntry is Array<*>\n\n
                itemIndex = 0\n                return 0\n            } else {\n                chainOrEntry = null\n
return 1\n            }\n        }\n\n        override fun hasNext(): Boolean {\n            if (state == -1)\n
state = computeNext()\n            return state == 0\n        }\n\n        override fun next(): MutableEntry<K, V>
{\n            if (!hasNext()) throw NoSuchElementException()\n            val lastEntry = if (isChain) {\n
chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n            } else {\n
chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n            }\n            this.lastEntry = lastEntry\n\n
state = -1\n            return lastEntry\n        }\n\n        override fun remove() {\n
checkNotNull(lastEntry)\n            this@InternalHashMap.remove(lastEntry!!.key)\n\n            lastEntry = null\n            // the chain being iterated just got modified by InternalHashMap.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
[InternalHashMap].\n */\ninternal 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\n    fun put(key: K, value: V): V?\n    fun
remove(key: K):
V?\n    fun clear(): Unit\n\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", /*\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.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper
around JavaScript Map for key type is string.\n */\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 */\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// *
A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\n// * iterator entry
is guaranteed to be still correct.\n// * This is to optimize for the common scenario where the values are not
modified during\n// * iterations where the entries are never stale.\n// */\n\n private var valueMod: Int = 0\n\n

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override operator fun contains(key: K): Boolean {
    if (key !is String) return false
    return backingMap[key] != undefined
}

override operator fun get(key: K): V? {
    if (key !is String) return null
    val value = backingMap[key]
    return if (value != undefined) value.unsafeCast<V>() else null
}

override fun put(key: K, value: V): V? {
    require(key is String)
    val oldValue = backingMap[key]
    backingMap[key] = value

    if (oldValue === undefined) {
        size++
        structureChanged(host)
        return null
    } else {
        valueMod++
        return oldValue.unsafeCast<V>()
    }
}

override fun remove(key: K): V? {
    if (key !is String) return null
    val value = backingMap[key]
    if (value != undefined) {
        jsDeleteProperty(backingMap, key)
        size--
        structureChanged(host)
        return value.unsafeCast<V>()
    } else {
        valueMod++
        return null
    }
}

override fun clear() {
    backingMap = createJsMap()
    size = 0
}

override fun iterator(): MutableIterator<MutableEntry<K, V>> {
    return object : MutableIterator<MutableEntry<K, V>> {
        private val keys: Array<String> = js("Object").keys(backingMap)
        private val iterator = keys.iterator()
        private var lastKey: String? = null

        override fun hasNext(): Boolean = iterator.hasNext()
        override fun next(): MutableEntry<K, V> {
            val key = iterator.next()
            lastKey = key
            @Suppress("UNCHECKED_CAST")
            return newMapEntry(key as K)
        }

        override fun remove() {
            @Suppress("UNCHECKED_CAST")
            this@InternalStringMap.remove(checkNotNull(lastKey) as K)
        }

        private fun newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {
            override val key: K get() = key
            override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()
            override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()
            override fun hashCode(): Int = AbstractMap.entryHashCode(this)
            override fun toString(): String = AbstractMap.entryToString(this)
            override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)
        }
    }
}

/*
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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 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
    }

    private inner class EntrySet : AbstractMutableSet<MutableEntry<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()\n\n        val current = next!!\n        last = current\n        next =
current.next.takeIf { it != head }\n        return current\n    }\n\n    override fun remove() {\n
check(last != null)\n//        checkStructuralChange(map, this)\n        last!!.remove()\n
        map.remove(last!!.key)\n//        recordLastKnownStructure(map, this)\n        last = null\n    }\n\n    }\n\n    override fun add(element: MutableEntry<K, V>): Boolean = throw
UnsupportedOperationException("Add is not supported on entries")\n    override fun clear() {\n
this@LinkedHashMap.clear()\n    }\n\n    override operator fun contains(element: MutableEntry<K, V>):
Boolean = containsEntry(element)\n\n    override operator fun iterator(): MutableIterator<MutableEntry<K, V>>
= EntryIterator()\n\n    override fun remove(element: MutableEntry<K, V>): Boolean {\n        if
(contains(element)) {\n            this@LinkedHashMap.remove(element.key)\n            return true\n        }\n
        return false\n    }\n\n    override val size: Int get() = this@LinkedHashMap.size\n    }\n\n\n    /*\n    * The
head of the insert order chain, which is a doubly-linked circular\n    * list.\n    */\n
    * The most recently inserted node is at the end of the chain, ie.\n    * chain.prev.\n    */\n    private var head:
ChainEntry<K, V>? = null\n\n    /*\n    * Add this node to the end of the chain.\n    */\n    private fun
ChainEntry<K, V>.addToEnd() {\n        // This entry is not in the list.\n        check(next == null && prev ==
null)\n        val _head = head\n        if (_head == null) {\n            head = this\n            next = this\n            prev =
this\n        } else {\n            // Chain is valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n
            prev = _tail\n            next = _head\n            // Update my new siblings: current head and old tail\n
            _head.prev = this\n            _tail.next = this\n        }\n    }\n\n    /*\n    * Remove this node from the chain it is a part
of.\n    */\n    private fun ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if this is single
element, remove
            head\n            head = null\n        } else {\n            if (head === this) {\n                // if this is first element, move head
to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n        next
= null\n        prev = null\n    }\n\n    /*\n    * The hashmap that keeps track of our entries and the chain. Note that
we\n    * duplicate the key here to eliminate changes to HashMap and minimize the\n    * code here, at the expense of
additional space.\n    */\n    private val map: HashMap<K, ChainEntry<K, V>>\n\n    /*\n    * Constructs an empty
[LinkedHashMap] instance.\n    */\n    actual constructor() : super() {\n        map = HashMap<K, ChainEntry<K,
V>>()\n    }\n\n    internal constructor(backingMap: HashMap<K, Any>) : super() {\n
@Suppress("UNCHECKED_CAST") // expected to work due to erasure\n        map = backingMap as
HashMap<K, ChainEntry<K, V>>\n    }\n\n    /*\n    * Constructs
an empty [LinkedHashMap] instance.\n    */\n    * @param initialCapacity the initial capacity (ignored)\n    *
@param loadFactor the load factor (ignored)\n    * @throws IllegalArgumentException if the initial
capacity or load factor are negative\n    */\n
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\n        map = HashMap<K, ChainEntry<K,
V>>()\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /*\n    * Constructs an
instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n    */\n    actual
constructor(original: Map<out K, V>) {\n        map = HashMap<K, ChainEntry<K, V>>()\n
this.putAll(original)\n    }\n\n    actual override fun clear() {\n        map.clear()\n        head = null\n    }\n\n\n    override fun clone(): Any {\n//        return LinkedHashMap(this)\n//
    }\n\n\n    actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n\n    actual override fun
containsValue(value: V): Boolean {\n        var node: ChainEntry<K, V> = head ?: return false\n        do {\n            if
(node.value == value) {\n                return true\n            }\n            node = node.next!!\n        } while (node !=
head)\n        return false\n    }\n\n\n    override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K,
V>> = EntrySet()\n\n    actual override operator fun get(key: K): V? = map.get(key)?.value\n\n    actual override fun
put(key: K, value: V): V? {\n        val old = map.get(key)\n        if (old == null) {\n            val newEntry =
ChainEntry(key, value)\n            map.put(key, newEntry)\n            newEntry.addToEnd()\n            return null\n
        } else {\n            return old.setValue(value)\n        }\n    }\n\n    actual override fun remove(key: K): V? {\n        val

```

```

entry = map.remove(key)\n
    if (entry != null) {\n        entry.remove()\n        return entry.value\n    }\n    return null\n}\n\n actual
override val size: Int get() = map.size\n}\n\n/**\n * Constructs the specialized implementation of
[LinkedHashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n
*/\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\n    return
LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\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 LinkedHashMap\n
* Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet]
interface, backed by a [LinkedHashMap] instance.\n */\n * This implementation preserves the insertion order
of elements during the iteration.\n */\npublic actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E>
{\n\n    internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n    /**\n     * Constructs a new empty
[LinkedHashSet].\n     */\n    actual constructor() : super(LinkedHashMap<E, Any>())\n\n    /**\n     * Constructs a
new [LinkedHashSet] filled with the elements of the specified collection.\n     */\n    actual constructor(elements:
Collection<E>) : super(LinkedHashMap<E, Any>()) {\n        addAll(elements)\n    }\n\n    /**\n     * Constructs a
new empty [LinkedHashSet].\n     */\n    * @param initialCapacity the initial capacity (ignored)\n     * @param
loadFactor the load factor (ignored)\n     * @throws IllegalArgumentException if the initial capacity or
load factor are negative\n     */\n    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    actual
constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity,
loadFactor))\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    // public override fun
clone(): Any {\n    //     return LinkedHashMap(this)\n    // }\n}\n\n\n/**\n * Creates a new instance of the specialized
implementation of [LinkedHashSet] with the specified [String] elements,\n * which elements the keys as properties
of JS object without hashing them.\n */\npublic fun linkedStringSetOf(vararg elements: String):
LinkedHashSet<String> {\n    return LinkedHashSet(linkedStringMapOf<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\npackage kotlin\n\nimport kotlin.contracts.*\n\n@Deprecated("Do not use Synchronized annotation in pure
Kotlin/JS code", level = DeprecationLevel.ERROR)\npublic typealias Synchronized =
kotlin.jvm.Synchronized\n\n@Deprecated("Do
not use Volatile annotation in pure Kotlin/JS code", level = DeprecationLevel.ERROR)\npublic typealias Volatile =
kotlin.jvm.Volatile\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <R> synchronized(lock: Any, block:
() -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return
block()\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.io\n\ninternal abstract class BaseOutput {\n    open fun println() {\n        print("\\n")\n    }\n\n
open fun println(message: Any?) {\n        print(message)\n        println()\n    }\n\n    abstract fun print(message:
Any?)\n\n    open fun flush() {\n    }\n}\n\n\n/** JsName used to make the declaration available outside of module to test it
*/\n@JsName("NodeJsOutput")\ninternal class NodeJsOutput(val
outputStream: dynamic) : BaseOutput() {\n    override fun print(message: Any?) {\n        // TODO: Using local
variable because of bug in block decomposition lowering in IR backend\n        val messageString =
String(message)\n        outputStream.write(messageString)\n    }\n}\n\n\n/** JsName used to make the declaration
available outside of module to test it */\n@JsName("OutputToConsoleLog")\ninternal class OutputToConsoleLog
: BaseOutput() {\n    override fun print(message: Any?) {\n        console.log(message)\n    }\n\n    override fun
println(message: Any?) {\n        console.log(message)\n    }\n\n    override fun println() {\n        console.log("")\n
}\n}\n\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in
*/\n@JsName("BufferedOutput")\ninternal open class BufferedOutput : BaseOutput() {\n    var buffer = ""\n\n    override
fun print(message: Any?) {\n        buffer += String(message)\n    }\n\n    override

```

```

fun flush() {\n    buffer = \"\"\n }\n\n/** JsName used to make the declaration available outside of module to
test it */\n@JsName(\"BufferedOutputToConsoleLog\")\ninternal class BufferedOutputToConsoleLog :
BufferedOutput() {\n    override fun print(message: Any?) {\n        var s = String(message)\n        val i =
s.nativeLastIndexOf(\"\\n\", 0)\n        if (i >= 0) {\n            buffer += s.substring(0, i)\n            flush()\n            s =
s.substring(i + 1)\n        }\n        buffer += s\n    }\n\n    override fun flush() {\n        console.log(buffer)\n        buffer
= \"\"\n    }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at
try.kotl.in */\n@JsName(\"output\")\ninternal var output = run {\n    val isNode: Boolean = js(\"typeof process !==
'undefined' && process.versions && !process.versions.node\")\n    if (isNode) NodeJsOutput(js(\"process.stdout\"))
else BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate
inline fun String(value: Any?): String = js(\"String\")(value)\n\n/** Prints the line separator to the standard output
stream. */\npublic actual fun println() {\n    output.println()\n}\n\n/** Prints the given [message] and the line
separator to the standard output stream. */\npublic actual fun println(message: Any?) {\n
output.println(message)\n}\n\n/** Prints the given [message] to the standard output stream. */\npublic actual fun
print(message: Any?) {\n    output.print(message)\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.coroutines\n\nimport
kotlin.coroutines.intrinsics.CoroutineSingletons.\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal
actual class SafeContinuation<in T>\ninternal actual constructor(\n    private
val delegate: Continuation<T>,\n    initialResult: Any?)\n: Continuation<T> {\n    @PublishedApi\n    internal
actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\n\n    public actual override val
context: CoroutineContext\n        get() = delegate.context\n\n    private var result: Any? = initialResult\n\n    public
actual override fun resumeWith(result: Result<T>) {\n        val cur = this.result\n        when {\n            cur ===
UNDECIDED -> {\n                this.result = result.value\n            }\n            cur === COROUTINE_SUSPENDED -
> {\n                this.result = RESUMED\n                delegate.resumeWith(result)\n            }\n            else -> throw
IllegalStateException(\"Already resumed\")\n        }\n    }\n\n    @PublishedApi\n    internal actual fun
getOrThrow(): Any? {\n        if (result === UNDECIDED) {\n            result = COROUTINE_SUSPENDED\n        }\n        return COROUTINE_SUSPENDED\n    }\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\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\n\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n    result.getOrThrow()\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.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\n    public constructor(dateString: String)\n\n    public constructor(year: Int, month: Int)\n\n    public
constructor(year: Int, month: Int, day: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n    public
constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n    public constructor(year: Int, month:
Int, day: Int, hour: Int, minute: Int, second: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int, millisecond: Number)\n\n    public fun getDate(): Int\n\n    public fun getDay(): Int\n\n    public
fun getFullYear(): Int\n\n    public fun getHours(): Int\n\n    public fun getMilliseconds(): Int\n\n    public fun

```



```

cssClasses: String): Boolean {\n    if (cssClasses.any { hasClass(it) }) {\n        val toBeRemoved =
cssClasses.toSet()\n        className = className.trim().split("\\|s+").toRegex().filter { it !in toBeRemoved
}.joinToString("\\|")\n        return true\n    }\n    return false\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 * Converts the string into a regular expression [Regex] with the default options.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the
string into a regular expression [Regex] with the specified single [option].\n */\n\n@kotlin.internal.InlineOnly\npublic
inline fun String.toRegex(option: RegexOption): Regex = Regex(this,
option)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified set of [options].\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex =
Regex(this, options)\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 * A mutable sequence of characters.\n */\n * String builder can be used to efficiently perform
multiple string manipulation operations.\n */\n\nexpect class StringBuilder : Appendable, CharSequence {\n    /**
Constructs an empty string builder. */\n    constructor()\n\n    /** Constructs an empty string builder with the
specified initial [capacity]. */\n    constructor(capacity: Int)\n\n    /** Constructs a string builder that contains
the same characters as the specified [content] char sequence. */\n    constructor(content: CharSequence)\n\n    /**
Constructs a string builder that contains the same characters as the specified [content] string. */\n
@SinceKotlin("1.3")\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\n    override fun append(value:
CharSequence?): StringBuilder\n\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    /**\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    /**\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// @ExperimentalStdlibApi\n    fun append(value: Boolean): StringBuilder\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("1.3")\n// @ExperimentalStdlibApi\n    fun append(value: CharArray): StringBuilder\n\n    /**\n * Appends
the specified string [value] to this string builder and returns this instance.\n */\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n    fun append(value: String): StringBuilder\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
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n    fun capacity(): Int\n\n    /**\n * Ensures that the capacity
of this string builder is at least equal to the specified [minimumCapacity].\n

```

```

    * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with
    greater capacity.
    * Otherwise, this method takes no action and simply returns.
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun ensureCapacity(minimumCapacity: Int): Int {
        Returns the index within this string builder of the first occurrence of the specified [string].
        * Returns -1 if the specified [string] does not occur in this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun indexOf(string: String): Int {
        Returns the index within this string builder of the first occurrence of the specified [string],
        * starting at the specified [startIndex].
        * Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun indexOf(string: String, startIndex: Int): Int {
        Returns the index within this string builder of the last occurrence of the specified [string].
        * The last occurrence of empty string "" is considered to be at the index equal to `this.length`.
        * Returns -1 if the specified [string] does not occur in this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun lastIndexOf(string: String): Int {
        Returns the index within this string builder of the last occurrence of the specified [string],
        * starting from the specified [startIndex] toward the beginning.
        * Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun lastIndexOf(string: String, startIndex: Int): Int {
        Inserts the string representation of the specified boolean [value] into
        this string builder at the specified [index] and returns this instance.
        * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,
        * and then that string was inserted into this string builder at the specified [index].
        * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: Boolean): StringBuilder {
        Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.
        * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: Char): StringBuilder {
        Inserts characters in 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] character array, starting at [index].
        * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: CharArray): StringBuilder {
        Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.
        * The inserted characters go in the same order as in the [value] character sequence, starting at [index].
        * @param index the position in this string builder to insert at.
        * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `null` are inserted.
        * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: CharSequence?): StringBuilder {
        Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.
        * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,
        * and then that string was inserted into this string builder at the specified [index].
        * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: Any?): StringBuilder {
        Inserts the string [value] into this string builder at the specified [index] and returns this instance.
        * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
    }
    @SinceKotlin("1.3")
    @ExperimentalStdlibApi
    fun insert(index: Int, value: String): StringBuilder {
        Sets the length of this string builder to the specified [newLength].
        * If the [newLength] is less

```

than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters '\u0000' are 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 * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun substring(startIndex: Int, endIndex: Int): String\n /**\n * Attempts to reduce storage used for this string builder.\n * If the backing storage of this string builder is larger than necessary to hold its current contents, 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("1.3")\n @ExperimentalStdlibApi\n fun trimToSize()\n /**\n * Clears the content of this string builder making it empty and returns this instance.\n * @sample samples.text.Strings.clearStringBuilder\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public expect fun StringBuilder.clear(): StringBuilder\n /**\n * Sets the character at the specified [index] to the specified [value].\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 * @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 * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n * @param index the index of `Char` to remove.\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 * @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 * @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("1.3")\n @ExperimentalStdlibApi\n public expect fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int, startIndex: Int, endIndex: Int): CharArray

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("1.3")\n @ExperimentalStdlibApi\n public 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. 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 *\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("1.3")\n @ExperimentalStdlibApi\n public 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("1.3")\n @ExperimentalStdlibApi\n public 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. If [value] is `null`,\n * then characters will be inserted as if [value] contained the four characters `\\`null`\".\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("1.3")\n @ExperimentalStdlibApi\n public 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\n public 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\n public inline fun
buildString(builderAction: String Builder.() -> Unit): String =\n
String Builder().apply(builderAction).toString()\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\n public inline fun
buildString(capacity: Int, builderAction:

```

StringBuilder() -> Unit): String =\n    StringBuilder(capacity).apply(builderAction).toString()\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 * 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\nimport org.w3c.dom.*\n\n/**\n * Gets a value
indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\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 */\npublic val Node.isElement: Boolean\n    get() =
nodeType == Node.ELEMENT_NODE\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\n    public override fun toString():
String = \"EventListenerHandler($handler)\"\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 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    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"/*\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\nimport
org.w3c.dom.*\n\n/**\n * Removes all the children from this node. \n */\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 */\nfun Element.appendText(text: String): Element {\n    appendChild(ownerDocument!!.createTextNode(text))\n    return this\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.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.DynamicExtension\n@JsName(\"unsafeCastDynamic\")\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 -
->\n            this[\"iterator\"]()\n        isArrayish(r) ->\n            r.unsafeCast<Array<*>>().iterator()\n        else ->\n            (r as Iterable<*>).iterator()\n
}\n}

```

}
}n}n", /*
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 *
 * package is omitted to get declarations directly under the module
 *
 * @JsName("throwNPE")
 * internal fun
 * throwNPE(message: String) {
 * throw NullPointerException(message)
 * }
 *
 * @JsName("throwCCE")
 * internal fun
 * throwCCE() {
 * throw ClassCastException("Illegal cast")
 * }
 *
 * @JsName("throwISE")
 * internal fun
 * throwISE(message: String) {
 * throw IllegalStateException(message)
 * }
 *
 * @JsName("throwUPAE")
 * internal fun
 * throwUPAE(propertyName: String) {
 * throw UninitializedPropertyAccessException("lateinit property
 * \$ {propertyName} has not been initialized")
 * }
 * }
 * }n", /*
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 * Programming Language contributors.
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 * found in the license/LICENSE.txt

```
file.  
 *  
 * package kotlin.  
 *  
 * // NOTE: Do not author your exceptions as they are written in this file, instead use  
 * this template:  
 *  
 * public open class MyException : Exception {  
 *     constructor() : super()  
 *     constructor(message: String?) : super(message)  
 *     constructor(message: String?, cause: Throwable?) : super(message, cause)  
 *     constructor(cause: Throwable?) : super(cause)  
 * }  
 *  
 * // TODO: remove workarounds for KT-22053 from  
 * direct Throwable inheritors  
 * // TODO: remove primary constructors, make all secondary  
 * KT-22055  
 *  
 * @Suppress("USELESS_ELVIS_RIGHT_IS_NULL")  
 * public actual open class Error actual  
 * constructor(message: String?, cause: Throwable?) : Throwable(message, cause ? : null) {  
 *     actual constructor() :  
 * this(null, null) {  
 *         Error::class.js.asDynamic().call(this, null, null)  
 *     }  
 *     actual constructor(message:  
 * String?) : this(message, null) {  
 *         Error::class.js.asDynamic().call(this, message, null)  
 *     }  
 *     actual  
 * constructor(cause: Throwable?) : this(undefiend, cause) {  
 *         Error::class.js.asDynamic().call(this, undefiend,  
 * cause)  
 *     }  
 * }  
 *  
 * @Suppress("USELESS_ELVIS_RIGHT_IS_NULL")  
 * public actual open class Exception  
 * actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ? : null) {  
 *     actual  
 * constructor() : this(null, null) {  
 *         Exception::class.js.asDynamic().call(this, null, null)  
 *     }  
 *     actual  
 * constructor(message: String?) : this(message, null) {  
 *         Exception::class.js.asDynamic().call(this, message,  
 * null)  
 *     }  
 *     actual constructor(cause: Throwable?) : this(undefiend, cause) {  
 *         Exception::class.js.asDynamic().call(this, undefiend, cause)  
 *     }  
 * }  
 *  
 * public actual open class RuntimeException  
 * actual constructor(message: String?, cause: Throwable?) : Exception(message, cause) {  
 *     actual constructor() :  
 * this(null, null)  
 *     actual constructor(message: String?) : this(message, null)  
 *     actual constructor(cause:  
 * Throwable?)  
 * : this(undefiend, cause)  
 * }  
 *  
 * public actual open class IllegalArgumentException actual constructor(message:  
 * String?, cause: Throwable?) : RuntimeException(message, cause) {  
 *     actual constructor() : this(null, null)  
 *     actual constructor(message: String?) : this(message, null)  
 *     actual constructor(cause: Throwable?) :  
 * this(undefiend, cause)  
 * }  
 *  
 * public actual open class IllegalStateException actual constructor(message: String?,  
 * cause: Throwable?) : RuntimeException(message, cause) {  
 *     actual constructor() : this(null, null)  
 *     actual  
 * constructor(message: String?) : this(message, null)  
 *     actual constructor(cause: Throwable?) : this(undefiend,  
 * cause)  
 * }  
 *  
 * public actual open class IndexOutOfBoundsException actual constructor(message: String?) :  
 * RuntimeException(message) {  
 *     actual constructor() : this(null)  
 * }  
 *  
 * public actual open class  
 * ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) :  
 * RuntimeException(message, cause) {  
 *  
 *     actual constructor() : this(null, null)  
 *     actual constructor(message: String?) : this(message, null)  
 *     actual  
 * constructor(cause: Throwable?) : this(undefiend, cause)  
 * }  
 *  
 * public actual open class  
 * UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) :  
 * RuntimeException(message, cause) {  
 *     actual constructor() : this(null, null)  
 *     actual constructor(message:  
 * String?) : this(message, null)  
 *     actual constructor(cause: Throwable?) : this(undefiend, cause)  
 * }  
 *  
 * public actual open class  
 * NumberFormatException actual constructor(message: String?) :  
 * IllegalArgumentException(message) {  
 *     actual constructor() : this(null)  
 * }  
 *  
 * public actual open class  
 * NullPointerException actual constructor(message: String?) : RuntimeException(message) {  
 *     actual constructor() :  
 * this(null)  
 * }  
 *  
 * public actual open class  
 * ClassCastException actual constructor(message: String?) :
```

```

RuntimeException(message) {\n  actual constructor() : this(null)\n}\n\npublic
  actual open class AssertionError private constructor(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\npublic actual open class
NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {\n  actual
  constructor() : this(null)\n}\n\n@SinceKotlin("1.3")\npublic actual open class ArithmeticException actual
  constructor(message: String?) : RuntimeException(message) {\n  actual constructor() : this(null)\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(undefiend, cause)\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(undefiend, cause)\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.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 element in the group.\n
  */\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\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"/*\n * Copyright 2010-2018 JetBrains
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  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 */\n\n * For the list of group-and-fold operations available, see the [extension
  functions](#extension-functions) for `Grouping`.\n */\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\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): 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 *\n * The key for each element is provided by the [Grouping.keyOf] function.\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, 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 *\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 *\n * @return the [destination] map associating the key of each group with the result of aggregation of the group elements.\n *\n * @sample samples.collections.Grouping.aggregateByRadixTo\n *\n * @SinceKotlin("1.1")\n */\n public 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/**\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 *\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 *\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")\n */\n public 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/**\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 *\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 *\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 *\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n *\n * @SinceKotlin("1.1")\n */\n public 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/**\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 *\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:
`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.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.
```

* 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 accumulator for that group.
@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\n *^\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n  destination: M,\n  initialValue: R,\n  operation: (accumulator: R, element: T) -> R\n): M =\n  @Suppress("UNCHECKED_CAST")\n  aggregateTo(destination) { _, 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 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\n *^\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n  operation: (key: K, accumulator: S, element: T) -> S\n): Map<K, S>
```

```
=\n  aggregate { key, acc, e, first ->\n    @Suppress("UNCHECKED_CAST")\n    if (first) e else operation(key, acc as S, e) }\n\n\n * 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,\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 first element of the group.  
* 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 accumulator for that group and the first element of that group is also
```

subjected to the [operation].
@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\n *^\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n  destination: M,\n  operation: (key: K, accumulator: S, element: T) -> S\n): M =\n  aggregateTo(destination) { key, acc, e, first ->\n
```

```
@Suppress("UNCHECKED_CAST")\n    if (first) e else operation(key, acc as S, e) }\n\n\n * 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.\n *\n

```
* @sample samples.collections.Grouping.groupingByEachCount\n *\n@SinceKotlin("1.1")\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\n    foldTo(destination, 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 * to the given [destination] map.\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 sum for that group.\n * @return the [destination] map associating the key of each group with the sum of elements in the group.\n *\n@SinceKotlin("1.1")\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n    foldTo(destination, 0) { acc, e -> acc + valueSelector(e) }\n\n/*\n\n// TODO: sum by long and by double overloads\n\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\n    foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n    fold(0L) { acc, e -> acc + valueSelector(e) }\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n    foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e) }\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double): Map<K, Double> =\n    fold(0.0) { acc, e -> acc + valueSelector(e) }\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.js\n\n/*\n * Exposes the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math) to Kotlin.\n *\n@Deprecated("Use top-level functions from kotlin.math package instead.", level = DeprecationLevel.WARNING)\npublic external object Math {\n\n    @Deprecated("Use kotlin.math.PI instead.", ReplaceWith("PI", "kotlin.math.PI"), level = DeprecationLevel.ERROR)\n    public val PI: Double\n\n    @Deprecated("Use Random.nextDouble instead", ReplaceWith("kotlin.random.Random.nextDouble()"), "kotlin.random.Random"), level = DeprecationLevel.WARNING)\n    public fun random(): Double\n\n    @Deprecated("Use kotlin.math.abs instead.", ReplaceWith("abs(value)", "kotlin.math.abs"), level = DeprecationLevel.ERROR)\n    public fun abs(value: Double): Double\n\n    @Deprecated("Use kotlin.math.acos instead.", ReplaceWith("acos(value)", "kotlin.math.acos"), level = DeprecationLevel.ERROR)\n    public fun acos(value: Double): Double\n\n    @Deprecated("Use kotlin.math.asin instead.", ReplaceWith("asin(value)", "kotlin.math.asin"), level = DeprecationLevel.ERROR)\n    public fun asin(value: Double): Double\n\n    @Deprecated("Use kotlin.math.atan instead.", ReplaceWith("atan(value)", "kotlin.math.atan"), level = DeprecationLevel.ERROR)\n    public fun atan(value: Double): Double\n\n    @Deprecated("Use kotlin.math.atan2 instead.", ReplaceWith("atan2(y, x)", "kotlin.math.atan2"), level = DeprecationLevel.ERROR)\n    public fun atan2(y: Double, x: Double): Double\n\n    @Deprecated("Use kotlin.math.cos instead.", ReplaceWith("cos(value)", "kotlin.math.cos"), level = DeprecationLevel.ERROR)\n    public fun cos(value: Double): Double\n\n    @Deprecated("Use kotlin.math.sin instead.", ReplaceWith("sin(value)", "kotlin.math.sin"), level = DeprecationLevel.ERROR)\n    public fun sin(value: Double): Double\n\n    @Deprecated("Use kotlin.math.exp instead.", ReplaceWith("exp(value)", "kotlin.math.exp"), level = DeprecationLevel.ERROR)\n    public fun exp(value: Double): Double\n\n    @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)\n    public fun max(vararg values: Int): Int\n\n    @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)\n    public fun max(vararg values: Float): Float\n\n    @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)\n    public fun max(vararg values: Double): Double\n\n    @Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)\n    public fun min(vararg values: Int): Int\n\n    @Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)\n    public fun min(vararg values: Float): Float\n\n    @Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)\n    public fun min(vararg values: Double): Double\n\n    @Deprecated("Use kotlin.math.sqrt instead.",
```

```

ReplaceWith("\sqrt(value)", "\kotlin.math.sqrt"), level = DeprecationLevel.ERROR)\n
public fun sqrt(value: Double): Double\n  @Deprecated("\Use kotlin.math.tan instead.\",
ReplaceWith("\tan(value)", "\kotlin.math.tan"), level = DeprecationLevel.ERROR)\n public fun tan(value:
Double): Double\n  @Deprecated("\Use kotlin.math.ln instead.\", ReplaceWith("\ln(value)", "\kotlin.math.ln"),
level = DeprecationLevel.ERROR)\n public fun log(value: Double): Double\n  @Deprecated("\Use
kotlin.math.pow instead.\", ReplaceWith("\base.pow(exp)", "\kotlin.math.pow"), level =
DeprecationLevel.ERROR)\n public fun pow(base: Double, exp: Double): Double\n  @Deprecated("\Use
kotlin.math.round instead.\", ReplaceWith("\round(value)", "\kotlin.math.round"), level =
DeprecationLevel.ERROR)\n public fun round(value: Number): Int\n  @Deprecated("\Use kotlin.math.floor
instead.\", ReplaceWith("\floor(value)", "\kotlin.math.floor"), level = DeprecationLevel.ERROR)\n public fun
floor(value: Number): Int\n  @Deprecated("\Use kotlin.math.ceil instead.\", ReplaceWith("\ceil(value)",
"\kotlin.math.ceil"), level = DeprecationLevel.ERROR)\n public fun ceil(value: Number): Int\n\n
@PublishedApi\n internal fun trunc(value: Number): Double\n  @PublishedApi\n internal fun sign(value:
Number): Double\n\n  @PublishedApi\n internal fun sinh(value: Double): Double\n  @PublishedApi\n
internal fun cosh(value: Double): Double\n  @PublishedApi\n internal fun tanh(value: Double): Double\n
@PublishedApi\n internal fun asinh(value: Double): Double\n  @PublishedApi\n internal fun acosh(value:
Double): Double\n  @PublishedApi\n internal fun atanh(value: Double): Double\n\n  @PublishedApi\n
internal fun hypot(x: Double, y: Double): Double\n\n  @PublishedApi\n internal fun expm1(value: Double):
Double\n\n  @PublishedApi\n internal fun log10(value: Double): Double\n  @PublishedApi\n internal fun
log2(value: Double): Double\n  @PublishedApi\n internal fun log1p(value: Double): Double\n\n
@PublishedApi\n
internal fun clz32(value: Int): Int\n}\n\n**\n * Returns the smaller of two values.\n
*\n\n@Suppress("\DEPRECATION")\n@Deprecated("\Use minOf or kotlin.math.min instead",
ReplaceWith("\minOf(a, b)"), level = DeprecationLevel.ERROR)\npublic fun Math.min(a: Long, b: Long): Long =
if (a <= b) a else b\n\n**\n * Returns the greater of two values.\n
*\n\n@Suppress("\DEPRECATION")\n@Deprecated("\Use maxOf or kotlin.math.max instead",
ReplaceWith("\maxOf(a, b)"), level = DeprecationLevel.ERROR)\npublic fun Math.max(a: Long, b: Long): Long =
if (a >= b) a else b\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 * An interface for indexing access to a collection of
key-value pairs, where type of key is [String] and type of value is [Any?][Any].\n */\n\npublic external interface Json
{\n
/**\n * Calls to the function will be translated to indexing operation (square brackets) on the receiver with
[propertyName] as the argument.\n * \n * E.g. for next code:\n * ```kotlin\n * fun test(j: Json, p: String) =
j["prop"] + j.get(p)\n * ```\n * \n * will be generated:\n * ```js\n * function test(j, p) {\n * return
j["prop"] + j[p];\n * }\n * ```\n */\n operator fun get(propertyName: String): Any?\n\n /**\n * Calls
of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index
operation) with [propertyName].\n * \n * E.g. for the following code:\n * ```kotlin\n * fun test(j: Json, p:
String, newValue: Any) {\n * j["prop"] = 1\n * j.set(p, newValue)\n * }\n * ```\n * \n * will be
generated:\n * ```js\n * function test(j, p, newValue) {\n * j["prop"] = 1;\n * j[p] = newValue;\n
* }\n * }\n * ```\n */\n operator fun set(propertyName: String, value: Any?): Unit\n}\n\n**\n * Returns a
simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\n
*\n\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n val res: dynamic = js("\({}")\n for ((name,
value) in pairs) {\n res[name] = value\n }\n return res\n}\n\n**\n * Adds key-value pairs from [other] to
[this].\n * Returns the original receiver.\n */\n\npublic fun Json.add(other: Json): Json {\n val keys: Array<String> =
js("\Object").keys(other)\n for (key in keys) {\n if (other.asDynamic().hasOwnProperty(key)) {\n
this[key] = other[key];\n }\n }\n return this\n}\n\n**\n * Exposes the JavaScript [JSON
object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n

```

```

*\n@Suppress("NOT_DOCUMENTED")\npublic external object JSON {\n    public fun
    stringify(o: Any?): String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?): String)\n
    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int):
    String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space:
    String): String\n    public fun stringify(o: Any?, replacer: Array<String>): String\n    public fun stringify(o: Any?,
    replacer: Array<String>, space: Int): String\n    public fun stringify(o: Any?, replacer: Array<String>, space:
    String): String\n\n    public fun <T> parse(text: String): T\n    public fun <T> parse(text: String, reviver: ((key:
    String, value: Any?) -> Any?): T)\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("DEPRECATION", "DEPRECATION_ERROR")\npackage
    kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.Math as nativeMath\n\n// region
    ===== Double Math =====\n\n\n** Computes the
    sine of the angle [x] given in radians.\n * \n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n
    *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double =
    nativeMath.sin(x)\n\n** Computes the cosine of the angle [x] given in radians.\n * \n * Special cases:\n * -
    `cos(NaN|+Inf|-Inf)` is `NaN`\n * \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x: Double):
    Double = nativeMath.cos(x)\n\n** Computes the tangent of the angle [x] given in radians.\n * \n * Special cases:\n
    * - `tan(NaN|+Inf|-Inf)` is `NaN`\n * \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x:
    Double): Double = nativeMath.tan(x)\n\n** \n * Computes the arc sine of the value [x];\n * the returned value is an
    angle in the range from `-PI/2`
    to `PI/2` radians.\n * \n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n
    *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double =
    nativeMath.asin(x)\n\n** \n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the
    range from `0.0` to `PI` radians.\n * \n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n
    *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double =
    nativeMath.acos(x)\n\n** \n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the
    range from `-PI/2` to `PI/2` radians.\n * \n * Special cases:\n * - `atan(NaN)` is `NaN`\n
    *\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 `PI` radians.\n * \n * Special
    cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(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`y\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n
    * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n * \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 * \n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-
    Inf`\n * \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 * \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 * \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 * \n * The returned value is
    `y` such that `sinh(y) == x`.\n * \n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * -
    `asinh(-Inf)` is `-Inf`\n * \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\n public 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\n public 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 * \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\n public 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 * \n *
Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n
 * \n @SinceKotlin("1.2")\n @InlineOnly\n public 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 * \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\n public actual inline fun exp(x: Double): Double =
nativeMath.exp(x)\n\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 * \n @see [exp] function.\n * \n @SinceKotlin("1.2")\n @InlineOnly\n public
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 * \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")\n @InlineOnly\n public
actual inline 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
 * \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\n public
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\n public
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\n public
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 * @see [expm1] function\n * \n @SinceKotlin("1.2")\n @InlineOnly\n public
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\n public actual inline fun ceil(x: Double): Double =
nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math\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\n public actual inline fun floor(x: Double): Double =
nativeMath.floor(x).unsafeCast<Double>()\n\n/**\n
 * 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")@InlineOnly`
`public actual inline fun truncate(x: Double): Double =`
`nativeMath.trunc(x)`
`* 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")@InlineOnly`
`public actual fun round(x: Double): Double {`
`if (x % 0.5 !=`
`0.0) {`
`return nativeMath.round(x).unsafeCast<Double>()`
`}`
`val floor = floor(x)`
`return if (floor % 2`
`== 0.0) floor else ceil(x)}`
`* Returns the absolute value of the given value [x].`
Special cases:
`- abs(NaN)` is `NaN`
`*@see absoluteValue extension property for [Double]`
`*@SinceKotlin("1.2")@InlineOnly`
`public actual inline fun abs(x: Double): Double =`
`nativeMath.abs(x)`
`* 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")@InlineOnly`
`public actual inline fun sign(x: Double): Double =`
`nativeMath.sign(x)`
`* Returns the smaller of two values.`
`* If either value is NaN, then the result is`
`NaN.`
`*@SinceKotlin("1.2")@InlineOnly`
`public actual inline fun min(a: Double, b: Double): Double =`
`nativeMath.min(a, b)`
`* Returns the greater of two values.`
`* If either value is NaN, then the result is`
`NaN.`
`*@SinceKotlin("1.2")@InlineOnly`
`public actual inline fun max(a: Double, b: Double): Double =`
`nativeMath.max(a, b)`
`// 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")@InlineOnly`
`public actual inline fun Double.pow(x: Double): Double =`
`nativeMath.pow(this, x)`
`* Raises this value to the integer power [n].`
`* See the other overload of`
`[pow] for details.`
`*@SinceKotlin("1.2")@InlineOnly`
`public actual inline fun Double.pow(n: Int): Double =`
`nativeMath.pow(this, n.toDouble())`
`* Returns the absolute value of this value.`
Special cases:
`- NaN.absoluteValue` is `NaN`
`*@see abs function`
`*@SinceKotlin("1.2")@InlineOnly`
`public`
`actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)`
`* 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")@InlineOnly`
`public actual inline val Double.sign: Double get() =`
`nativeMath.sign(this)`
`* Returns this value with the sign bit same as of the [sign] value.`
`*@SinceKotlin("1.2")@InlineOnly`
`public actual inline fun Double.withSign(sign: Int): Double =`
`this.withSign(sign.toDouble())`
`* 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")@InlineOnly`
`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}`
`* Returns the [Double] value nearest to this value in direction of positive infinity.`
`*@SinceKotlin("1.2")@InlineOnly`
`public actual fun 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)`
`* Returns the [Double] value nearest to this`
`value in direction of negative infinity.`
`*@SinceKotlin("1.2")@InlineOnly`
`public actual fun 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)`
`* 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")@InlineOnly`
`public actual fun Double.nextTowards(to:`

Double): Double = when {
 this.isNaN() || to.isNaN() -> Double.NaN
 to == this -> to
 to > this -> this.nextUp()
 else /* to < this */ -> this.nextDown()
 }
 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 actual fun Double.roundToInt(): Int = when {
 isNaN() -> throw
 IllegalArgumentException("Cannot round NaN value.")
 this > Int.MAX_VALUE -> Int.MAX_VALUE
 this < Int.MIN_VALUE -> Int.MIN_VALUE
 else ->
 nativeMath.round(this).unsafeCast<Double>().toInt()
 }
 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 actual fun Double.roundToLong(): Long = when {
 isNaN() -> throw
 IllegalArgumentException("Cannot round NaN value.")
 this > Long.MAX_VALUE -> Long.MAX_VALUE
 this < Long.MIN_VALUE -> Long.MIN_VALUE
 else -> nativeMath.round(this).unsafeCast<Double>().toLong()
 }
 // 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")
 @InlineOnly
 public actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()
 Computes the cosine of the angle [x] given in radians.
 Special cases:
 - `cos(NaN|+Inf|-Inf)` is `NaN`
 @SinceKotlin("1.2")
 @InlineOnly
 public actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()
 Computes the tangent of the angle [x] given in radians.
 Special cases:
 - `tan(NaN|+Inf|-Inf)` is `NaN`
 @SinceKotlin("1.2")
 @InlineOnly
 public actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()
 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")
 @InlineOnly
 public actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()
 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")
 @InlineOnly
 public actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()
 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")
 @InlineOnly
 public actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()
 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")
 @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(NaN)` is `NaN`
 - `sinh(+Inf)` is `+Inf`
 - `sinh(-Inf)` is `-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(NaN)` is `NaN`
 - `cosh(+Inf|-Inf)` is `+Inf`

```

*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cosh(x: Float): Float =
nativeMath.cosh(x.toDouble()).toFloat()\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: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()\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: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()\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: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()\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: Float): Float =
nativeMath.atanh(x.toDouble()).toFloat()\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: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\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: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()\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: Float): Float =
nativeMath.exp(x.toDouble()).toFloat()\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: Float): Float =
nativeMath.expm1(x.toDouble()).toFloat()\n\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 * See also logarithm functions for common fixed bases: [ln],
[log10] and [log2].\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log(x: Float, base: Float):
Float = log(x.toDouble(), base.toDouble()).toFloat()\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: Float):
Float = nativeMath.log(x.toDouble()).toFloat()\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")\n@InlineOnly\npublic actual inline fun log10(x: Float): Float =
nativeMath.log10(x.toDouble()).toFloat()\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")\n@InlineOnly\npublic actual inline fun log2(x:
Float): Float = nativeMath.log2(x.toDouble()).toFloat()\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")\n@InlineOnly\npublic actual inline fun
ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()\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.

Special cases: `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

```

@SinceKotlin("1.2")@InlineOnly
public 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: `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

```

@SinceKotlin("1.2")@InlineOnly
public 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: `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

```

@SinceKotlin("1.2")@InlineOnly
public 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: `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

```

@SinceKotlin("1.2")@InlineOnly
public actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()

```

Returns the absolute value of the given value [x].

Special cases: `abs(NaN)` is `NaN`

@see `absoluteValue` extension property for [Float]

```

@SinceKotlin("1.2")@InlineOnly
public 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: `sign(NaN)` is `NaN`

```

@SinceKotlin("1.2")@InlineOnly
public 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`.

```

@SinceKotlin("1.2")@InlineOnly
public 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`.

```

@SinceKotlin("1.2")@InlineOnly
public actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)

```

// 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")@InlineOnly
public 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.

```

@SinceKotlin("1.2")@InlineOnly
public actual inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()

```

Returns the absolute value of this value.

Special cases: `NaN.absoluteValue` is `NaN`

@see `abs` function

```

@SinceKotlin("1.2")@InlineOnly
public 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: `NaN.sign` is `NaN`

```

@SinceKotlin("1.2")@InlineOnly
public 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.

```

@SinceKotlin("1.2")@InlineOnly
public actual inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()

```

Returns this value with the sign bit same as of the [sign] value.

```

@SinceKotlin("1.2")@InlineOnly
public actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()

```

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")@InlineOnly
public actual inline fun Float.roundToInt(): Int = toDouble().roundToInt()

```

```

* Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards
positive infinity.\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 * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual inline fun Float.roundToLong(): Long = toDouble().roundToLong()\n\n// endregion\n\n// region
===== Integer Math =====\n\n * Returns
the absolute value of the given value [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 * \n * \n *
remove manual 'or' when KT-19290 is fixed\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual fun abs(n: Int): Int = if (n < 0) (-
n or 0) else n\n\n * Returns the smaller of two values.\n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\n\n * Returns the greater of two values.\n
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a,
b)\n\n * Returns the absolute value of this value.\n * Special cases:\n * -
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n * \n * @see abs function\n
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual inline val Int.absoluteValue: Int get() = abs(this)\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 * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual val Int.sign: Int get() = when {\n    this < 0 -> -1\n    this > 0 -
> 1\n    else -> 0\n}\n\n * Returns the absolute value of the given value [n].\n * Special cases:\n * -
`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n
\n * \n * @see absoluteValue extension property for [Long]\n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual fun abs(n:
Long): Long = if (n < 0) -n else n\n\n * Returns the smaller of two values.\n
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual inline fun min(a: Long, b:
Long): Long = if (a <= b) a else b\n\n * Returns the greater of two values.\n
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n * Returns the absolute value of this value.\n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n * \n * @see abs function\n
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual
val Long.sign: Int get() = when {\n    this < 0 -> -1\n    this > 0 -> 1\n    else -> 0\n}\n\n// endregion\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 * \n * \n *
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
package
kotlin\n\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual fun Double.isNaN(): Boolean = this != this\n\n * Returns `true` if the specified number is a\n
\n * Not-a-Number (NaN) value, `false` otherwise.\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual fun Float.isNaN(): Boolean = this !=
this\n\n * Returns `true` if this value is infinitely large in magnitude.\n * \n * \n * \n * \n * \n * \n *
actual fun Double.isInfinite():
Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n * Returns
`true` if this value is infinitely large in magnitude.\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual fun Float.isInfinite(): Boolean
= this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n * Returns `true` if the
argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n * \n *
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual fun Double.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n * Returns `true` if the argument is a finite
floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n * \n * \n * \n * \n * \n *
\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
actual fun
Float.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n * Counts the number of set bits in the binary
representation of this [Int] number.\n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n * \n *
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/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [Int] number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("DEPRECATION")\n@kotlin.internal.InlineO
nly\npublic actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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 * 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 [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\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 * 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 [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\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.\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 * 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 * 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 getKClass\nimport kotlin.reflect.KClass\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 */\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@Deprecated("Use class literal and extension property `js` instead.", replaceWith =

```

```

ReplaceWith("\T::class.js\`"), level = DeprecationLevel.ERROR)\nexternal fun <T : Any> jsClass():
JsClass<T>\n\n@Deprecated("\Use class literal and extension property `js` instead.\`", replaceWith =
ReplaceWith("\this::class.js\`"), level = DeprecationLevel.ERROR)\nval <T : Any> T.jsClass: JsClass<T>\n get()
= when (jsTypeOf(this)) {\n
    \string\` -> js("\String\`")\n    \number\` -> js("\Number\`")\n    \boolean\` -> js("\Boolean\`")\n    else ->
js("\Object\`).getPrototypeOf(this).constructor\n } \n\n/**\n * Obtains a constructor reference for the given
`KClass`. \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 */\nval <T : Any> JsClass<T>.kotlin:
KClass<T>\n get() = getKClass(this)\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.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    override val
annotations: List<Annotation>\n        get() = TODO()\n    override val constructors: Collection<KFunction<T>>\n
        get() = TODO()\n    override val isAbstract: Boolean\n        get() = TODO()\n    override val isCompanion:
Boolean\n        get() = TODO()\n    override val isData: Boolean\n        get() = TODO()\n    override val isFinal:
Boolean\n        get() = TODO()\n    override val isInner: Boolean\n        get() = TODO()\n    override val isOpen:
Boolean\n        get() = TODO()\n    override val isSealed: Boolean\n        get() = TODO()\n    override val members:
Collection<KCallable<*>>\n        get() = TODO()\n    override val nestedClasses: Collection<KClass<*>>\n
        get() = TODO()\n    override val objectInstance: T?\n        get() = TODO()\n    override val qualifiedName: String?\n
        get() = TODO()\n    override val supertypes: List<KType>\n        get() = TODO()\n    override val
typeParameters: List<KTypeParameter>\n        get() = TODO()\n    override val sealedSubclasses: List<KClass<out
T>>\n        get() = TODO()\n    override val visibility: KVisibility?\n
        get() = TODO()\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 * 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.*\n\nimport
kotlin.reflect.js.internal.*\n\n@JsName("\createKType\`")\ninternal fun createKType(\n    classifier: KClassifier,\n
arguments: Array<KTypeProjection>,\n    isMarkedNullable: Boolean\n) =\n    KTypeImpl(classifier,
arguments.asList(), isMarkedNullable)\n\n@JsName("\createDynamicKType\`")\ninternal fun
createDynamicKType(): KType = DynamicKType\n\n@JsName("\markKTypeNullable\`")\ninternal fun
markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,
true)\n\n@JsName("\createKTypeParameter\`")\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  return\n  KTypeParameterImpl(name, upperBounds.asList(), kVariance,\nfalse)\n}\n\n@JsName(\"getStarKTypeProjection\")\n\ninternal\n  fun getStarKTypeProjection(): KTypeProjection =\n  KTypeProjection.STAR\n\n@JsName(\"createCovariantKTypeProjection\")\n\ninternal fun\n  createCovariantKTypeProjection(type: KType): KTypeProjection =\n  KTypeProjection.covariant(type)\n\n@JsName(\"createInvariantKTypeProjection\")\n\ninternal fun\n  createInvariantKTypeProjection(type: KType): KTypeProjection =\n  KTypeProjection.invariant(type)\n\n@JsName(\"createContravariantKTypeProjection\")\n\ninternal fun\n  createContravariantKTypeProjection(type: KType): KTypeProjection =\n  KTypeProjection.contravariant(type)\n\n\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming\nLanguage contributors.\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.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class\n  KTypeImpl(\n  override val classifier: KClassifier,\n  override val arguments: List<KTypeProjection>,\n  override val isMarkedNullable: Boolean\n) : KType {\n  override val annotations: List<Annotation> =\n  emptyList()\n\n  override fun equals(other: Any?): Boolean =\n    other is KTypeImpl &&\n      classifier\n    == other.classifier &&\n      arguments == other.arguments &&\n      isMarkedNullable == other.isMarkedNullable\n\n  override fun hashCode(): Int =\n    (classifier.hashCode() * 31 + arguments.hashCode()) * 31 +\n    isMarkedNullable.hashCode()\n\n  override fun toString(): String {\n    val kClass = (classifier as? KClass<*>)\n\n    val classifierName = when {\n      kClass == null -> classifier.toString()\n      kClass.simpleName != null\n-> kClass.simpleName\n      else -> \"(non-denotable type)\"\n    }\n\n    val args =\n      if\n        (arguments.isEmpty()) \"\"\n      else arguments.joinToString(\" \", \"<\", \">\") { it.asString() }\n\n    val\n      nullable = if (isMarkedNullable) \"?\" else \"\"\n\n    return\n      classifierName + args + nullable\n    }\n\n    // TODO: this should be the implementation of\n  KTypeProjection.toString, see KT-30071\n  private fun KTypeProjection.asString(): String {\n    if (variance ==\nnull) return \"*\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> =\n  emptyList()\n  override val isMarkedNullable: Boolean = false\n  override val annotations: List<Annotation> =\n  emptyList()\n  override fun toString(): String = \"dynamic\"\n}\n\ninternal fun KVariance.prefixString() =\nwhen (this) {\n  KVariance.INVARIANT -> \"\"\n  KVariance.IN -> \"in \"\n  KVariance.OUT -> \"out\n\"\n  }\n\n\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of\nthis source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt\nfile.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName(\"PrimitiveClasses\")\n\ninternal\nobject PrimitiveClasses {\n  @JsName(\"anyClass\")\n  val anyClass =\n  PrimitiveKClassImpl(js(\"Object\").unsafeCast<JsClass<Any>>(), \"Any\", { it is Any })\n\n  @JsName(\"numberClass\")\n  val numberClass =\n  PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Number>>(), \"Number\", { it is Number })\n\n  @JsName(\"nothingClass\")\n\n  val nothingClass = NothingKClassImpl\n\n  @JsName(\"booleanClass\")\n  val booleanClass =\n  PrimitiveKClassImpl(js(\"Boolean\").unsafeCast<JsClass<Boolean>>(), \"Boolean\", { it is Boolean })\n\n  @JsName(\"byteClass\")\n  val byteClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Byte>>(),\n\"Byte\", { it is Byte })\n\n  @JsName(\"shortClass\")\n  val shortClass =

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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\nprivate val
functionClasses = arrayOfNulls<KClassImpl<Any>>(0), "/*\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\nimport kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("getKClass")\ninternal fun <T :
Any> getKClass(jClass: JsClass<T>): KClass<T> =
getOrCreateKClass(jClass)\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 ->

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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          getOrCreateKClass(jsClass)\n          }\n
}\n          }\n          }\n          }.unsafeCast<KClass<T>>()\n\nprivate fun <T : Any>
getOrCreateKClass(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\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")\n\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")\n\npublic external interface RegExpMatch {\n public val index: Int\n
public val input: String\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
operator 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",/*\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 private var
sequenceRef: Sequence<T>? = sequence\n\n actual override fun iterator(): Iterator<T> {\n val sequence =
sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")\n sequenceRef =
null\n return sequence.iterator()\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\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic actual open class
CharacterCodingException(message: String?) : Exception(message) {\n actual constructor() : this(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 * A mutable sequence of characters.\n */\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
*\n * In Kotlin/JS implementation of StringBuilder the initial capacity has no effect on the further performance

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of operations.\n  *^n  actual constructor(capacity: Int) : this() {\n
  this.asDynamic()._capacity = capacity\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  /** 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  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  string += value\n  return this\n  }\n\n  actual override
fun append(value: CharSequence?): StringBuilder {\n  string += value.toString()\n
  return this\n  }\n\n  @UseExperimental(ExperimentalStdlibApi::class)\n  actual override fun append(value:
CharSequence?, startIndex: Int, endIndex: Int): StringBuilder = this.appendRange(value, 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 `\"\\uD800\\uD800\"` produces
`\"\\uD800\\uDC00\"` which is a valid surrogate pair.\n  *\n  actual fun reverse(): StringBuilder {\n  var
reversed = \"\"\n  var index = string.length - 1\n  while (index >= 0) {\n    val low = string[index--]\n
    if (low.isLowSurrogate() && index
    >= 0) {\n      val high = string[index--]\n      if (high.isHighSurrogate()) {\n        reversed =
reversed + high + low\n      } else {\n        reversed = reversed + low + high\n      }\n    }
    else {\n      reversed += low\n    }\n  }\n  string = reversed\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  string += value.toString()\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  @ExperimentalStdlibApi\n
actual fun append(value: Boolean): StringBuilder {\n  string += value\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(\"1.3\")\n
@ExperimentalStdlibApi\n  actual fun append(value: CharArray): StringBuilder {\n  string +=
value.concatToString()\n  return this\n  }\n\n  /**\n  * Appends the specified string [value] to this string
builder and returns this instance.\n  *\n  @SinceKotlin(\"1.3\")\n  @ExperimentalStdlibApi\n  actual fun
append(value: String): StringBuilder {\n  this.string += value\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  actual fun capacity(): Int = if
(this.asDynamic()._capacity !== undefined) maxOf(this.asDynamic()._capacity, length) else 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(\"1.3\")\n  @ExperimentalStdlibApi\n  actual fun
ensureCapacity(minimumCapacity: Int) {\n  if (minimumCapacity > capacity()) {\n

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this.asDynamic()._capacity = minimumCapacity\n    }\n }\n\n /**\n * Returns the index within this string
builder of the first occurrence of the specified [string].\n *\n * Returns -1 if the specified [string] does not
occur in this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 *\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("1.3")\n @ExperimentalStdlibApi\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 *\n * The last occurrence of empty string ``\n`` 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("1.3")\n @ExperimentalStdlibApi\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 *\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\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\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 *\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("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int, value: Boolean): StringBuilder {\n    AbstractList.checkPositionIndex(index,
length)\n\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\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int, value: Char): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\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("1.3")\n @ExperimentalStdlibApi\n actual fun insert(index:
Int, value: CharArray): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\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 *\n * @param value the
character sequence from which characters are inserted. If [value] is `null`, then the four characters `"\n\n\n\n"` are
inserted.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n *\n @SinceKotlin("1.3")\n\n @ExperimentalStdlibApi\n actual fun insert(index: Int, value: CharSequence?): StringBuilder {\n
AbstractList.checkPositionIndex(index, length)\n\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 *\n * and then that string was
inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if

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[index] is less than zero or greater than the length of this string builder.\n    */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    actual fun insert(index: Int, value: Any?): StringBuilder {\n\n    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value.toString() + string.substring(index)\n    return this\n    }\n\n    /**\n    * Inserts the string [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("1.3")\n    @ExperimentalStdlibApi\n    actual fun insert(index: Int, value: String):\n    StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n    this.string = this.string.substring(0,\n    index) + value + this.string.substring(index)\n    return this\n    }\n\n    /**\n    * Sets the length of this string\n    builder to the specified [newLength].\n    *\n    * If the [newLength] is less than the current length, it is changed to\n    the specified [newLength].\n    * Otherwise, null characters '\\u0000' are appended to this string builder until its\n    length is less than the [newLength].\n\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\n    program.\n    *\n    * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less\n    than zero.\n    */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    actual fun setLength(newLength: Int)\n    {\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\n    in length until newLength) {\n    string += "\\u0000"\n    }\n    }\n    }\n\n    /**\n    * Returns a new\n    [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n\n    *\n    * @throws IndexOutOfBoundsException\n    if [startIndex] is less than zero or greater than the length of this string builder.\n    */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    actual fun substring(startIndex: Int): String {\n\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\n    [endIndex] (exclusive).\n    *\n    * @throws IndexOutOfBoundsException or [IllegalArgumentException] when\n    [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n    */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    actual fun substring(startIndex: Int, endIndex: Int): String\n    {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n    return string.substring(startIndex,\n    endIndex)\n    }\n\n    /**\n    * Attempts to reduce storage\n    used for this string builder.\n    *\n    * If the backing storage of this string builder is larger than necessary to hold\n    its current contents,\n    * then it may be resized to become more space efficient.\n    * Calling this method may,\n    but is not required to, affect the value of the [capacity] property.\n    *\n    * In Kotlin/JS implementation of\n    StringBuilder the size of the backing storage is always equal to the length of the string builder.\n    */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    actual fun trimToSize() {\n    if\n    (this.asDynamic()._capacity !== undefined) {\n    this.asDynamic()._capacity = length\n    }\n    }\n\n    override fun toString(): String = string\n\n    /**\n    * Clears the content of this string builder making it empty and\n    returns this instance.\n    *\n    * @sample samples.text.Strings.clearStringBuilder\n    */\n    @SinceKotlin("1.3")\n    public fun clear(): StringBuilder {\n    string = ""\n\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("1.3")\n    @ExperimentalStdlibApi\n    public operator fun set(index: Int, value: Char) {\n\n    AbstractList.checkElementIndex(index, length)\n\n    string = string.substring(0, index) + value +\n    string.substring(index + 1)\n    }\n\n    /**\n    * Replaces characters in the specified range of this string builder with\n    characters in the specified string [value] and returns this instance.\n    *\n    * @param startIndex the beginning\n    (inclusive) of the range to replace.\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\n    [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder,\n
```

```

or `startIndex > endIndex`.n  */n  @SinceKotlin("1.3")n  @ExperimentalStdlibApi\n  public fun
setRange(startIndex: Int, endIndex: Int, value: String): StringBulder {\n    checkReplaceRange(startIndex,
endIndex, length)\n\n    this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n\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: $length")\n    }\n    if (startIndex > endIndex) {\n        throw
IllegalArgumentExcepion("startIndex($startIndex) > endIndex($endIndex)")\n    }\n  }\n\n  /**\n   *
Removes the character at the specified [index] from this string builder and returns this instance.\n   *
If the `Char` at the specified [index] is part of a supplementary code point, this method does not
remove the entire supplementary character.\n   *
@param index the index of `Char` to remove.\n   *
@throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n   */n
@SinceKotlin("1.3")n  @ExperimentalStdlibApi\n  public fun deleteAt(index: Int): StringBulder {\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   *
@param startIndex the beginning (inclusive) of the range to remove.\n   *
@param endIndex the end (exclusive) of the range to remove.\n   *
@throws IndexOutOfBoundsException or [IllegalArgumentExcepion] when [startIndex] is out of range of this
string builder indices or when `startIndex >
endIndex`.n  */n  @SinceKotlin("1.3")n  @ExperimentalStdlibApi\n  public
fun deleteRange(startIndex: Int, endIndex: Int): StringBulder {\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   *
@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   *
@throws IndexOutOfBoundsException or [IllegalArgumentExcepion] 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("1.3")n
@ExperimentalStdlibApi\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  /**\n   * Appends characters in a subarray of the specified character array
[value] to this string builder and returns this instance.\n   *
Characters are appended in order, starting at
specified [startIndex].\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   *
@throws IndexOutOfBoundsException or [IllegalArgumentExcepion] when [startIndex] or [endIndex] is out of
range of the [value] array indices or when `startIndex > endIndex`.n   */n  @SinceKotlin("1.3")n
@ExperimentalStdlibApi\n  public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int):
StringBulder {\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. 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 [IllegalArgumentExcepion]
when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex >
endIndex`.n   */n  @SinceKotlin("1.3")n  @ExperimentalStdlibApi\n  public fun appendRange(value:

```

```

CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)
    string +=
    stringCsq.substring(startIndex, endIndex)
    return this
}

/**
 * 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("1.3")
@ExperimentalStdlibApi
public fun
insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkPositionIndex(index, this.length)
    string = string.substring(0, index) +
    value.concatToString(startIndex, endIndex) + string.substring(index)
    return this
}

/**
 * Inserts
characters in a subsequence of the specified character sequence [value] into this string builder at
the specified [index] and returns this instance.
 *
 * The inserted characters go in the same order as in the
[value] character sequence, starting at [index].
 *
 * @param index
the position in this string builder to insert
at.
 *
 * @param value
the character sequence from which a subsequence is inserted. If [value] is `null`,
 *
then
characters will be inserted as if [value] contained the four characters `"\null"`.
 *
 * @param startIndex
the
beginning (inclusive) of the subsequence to insert.
 *
 * @param endIndex
the end (exclusive) of the subsequence
to insert.
 *
 * @throws IndexOutOfBoundsException
or [IllegalArgumentException]
when [startIndex] or
[endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.
 *
 * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun insertRange(index: Int, value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkPositionIndex(index, length)
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)
    string = string.substring(0, index)
+ stringCsq.substring(startIndex, endIndex) + string.substring(index)
    return this
}

/**
 * Clears
the content of this string builder making it empty and returns this instance.
 */
@sample
samples.text.Strings.clearStringBuilder

@SinceKotlin("1.3")
@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
"NOTHING_TO_INLINE")
public actual inline fun StringBuilder.clear(): StringBuilder = this.clear()

/**
 * Sets the character at the specified [index] to the specified [value].
 *
 * @throws IndexOutOfBoundsException
if [index] is out of bounds of this string builder.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
",
"NOTHING_TO_INLINE")
public actual inline operator fun StringBuilder.set(index: Int, value: Char) =
this.set(index, value)

/**
 * Replaces characters in the specified range of this string builder with characters in
the specified string [value] and returns this instance.
 *
 * @param startIndex
the beginning (inclusive) of the
range to replace.
 *
 * @param endIndex
the end (exclusive) of the range to replace.
 *
 * @param value
the string to
replace with.
 *
 * @throws IndexOutOfBoundsException
or [IllegalArgumentException]
if [startIndex] is less
than zero, greater than the length of this string builder, or `startIndex > endIndex`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int,
value: String): StringBuilder =
this.setRange(startIndex, endIndex, value)

/**
 * Removes the character at
the specified [index] from this string builder and returns this instance.
 *
 * If the `Char` at the specified [index]
is part of a supplementary code point, this method does not remove the entire supplementary character.
 *
 * @param index
the index of `Char` to remove.
 *
 * @throws IndexOutOfBoundsException
if [index] is out of

```

bounds of this string builder.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",\n"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder =\nthis.deleteAt(index)\n\n/**\n * Removes characters in the specified range from this string builder and returns this\n instance.\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end\n (exclusive) of the range to remove.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException]\n when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",\n"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int):\nStringBuilder = this.deleteRange(startIndex, endIndex)\n\n/**\n * Copies characters from this string builder into the\n [destination] character array.\n * @param destination the array to copy to.\n * @param destinationOffset the\n position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0\n by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out\n of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException\n 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("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",\n"NOTHING_TO_INLINE",\n"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual\ninline fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0,\nendIndex: Int = this.length) =\nthis.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to this string builder and returns this\n instance.\n * Characters are appended in order, starting at specified [startIndex].\n * @param value the array\n 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 * @throws IndexOutOfBoundsException or\n [IllegalArgumentException] when [startIndex] or [endIndex]\n is out of range of the [value] array indices or when `startIndex > endIndex`.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",\n"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.appendRange(value: CharArray, startIndex:\nInt, endIndex: Int): StringBuilder =\nthis.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a\n subsequence of the specified character sequence [value] to this string builder and returns this instance.\n * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n * then\n characters are appended as if [value] contained the four characters `\\null`.\n * @param startIndex the beginning\n (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\n of range of the [value] character sequence indices or\n when `startIndex > endIndex`.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",\n"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.appendRange(value: CharSequence?,\nstartIndex: Int, endIndex: Int): StringBuilder =\nthis.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts\n characters in a subarray of the specified character array [value] into this string builder at the specified [index] and\n returns this instance.\n * The inserted characters go in same order as in the [value] array, starting at [index].\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters\n are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the\n end (exclusive) of the subarray to insert.\n * @throws IndexOutOfBoundsException or\n [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array\n indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or\n greater than the length of this string builder.\n
```

```

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_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. If [value] is `null`, then characters will be inserted as if [value] contained the four characters\n * `\\`null`. \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\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("EXTENSION_SHADOWED_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// actually \\s is enough to match all whitespace, but \\xA0 added because of different regexp behavior of Rhino used in Selenium tests\npublic actual fun Char.isWhitespace(): Boolean =\n    toString().matches("[\\s\\xA0]")\n\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase(): Char =\n    js("String.fromCharCode")(toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toUpperCase(): Char =\n    js("String.fromCharCode")(toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n/*\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\n */\npublic actual fun Char.isHighSurrogate(): Boolean = this in\n    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 */\npublic actual fun Char.isLowSurrogate(): Boolean = this in\n    Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\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 contents of this string is equal to the word `true`, ignoring case, and `false` otherwise.\n */\npublic actual fun String.toBoolean(): Boolean = toLowerCase() == "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

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```

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.\n */\npublic
actual fun String.toDouble(): Double = +(this.asDynamic()).unsafeCast<Double>().also { \n    if (it.isNaN() &&
!this.isNaN() || it == 0.0 && this.isBlank())\n        numberFormatError(this)\n}\n\n/**\n * Parses the string as a
[Float] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n/**\n * Parses the string as a [Double] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */\npublic actual fun String.toDoubleOrNull(): Double? =
+(this.asDynamic()).unsafeCast<Double>().takeIf { \n    !(it.isNaN() && !this.isNaN() || it
    == 0.0 && this.isBlank())\n}\n\n/**\n * Parses the string as a [Float] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual
inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation
of this [Short] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual
inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation
of this [Int] value in the specified [radix].\n * @throws
IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n
*/\n@SinceKotlin("1.2")\npublic actual fun Int.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.toLowerCase()) { \n
    "nan", "+nan", "-nan" -> true\n    else -> false\n}\n\n/**\n * Checks whether the given [radix] is valid radix for
string to number and number to string conversion.\n */\n@PublishedApi\ninternal actual fun checkRadix(radix: Int):
Int { \n    if (radix !in 2..36) { \n        throw IllegalArgumentException("\nradix $radix was not in valid range
2..36")\n    }\n    return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when { \n    char >=
'0' && char <=
'9' -> char - '0'\n    char >= 'A' && char <= 'Z' -> char - 'A' + 10\n    char >= 'a' && char <= 'z' -> char - 'a' + 10\n
else
    -> -1\n}.let { if (it >= radix) -1 else it }\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Provides enumeration
values to use to set regular expression options.\n */\npublic actual enum class RegexOptions(val value: String) { \n
    /** Enables case-insensitive matching. */\n    IGNORE_CASE("i"),\n    /** Enables multiline mode. */\n    \n    In multiline mode the expressions `^` and `$` match just after or just before,\n    * respectively, a line terminator or
the end of the input sequence. */\n    MULTILINE("m")\n}\n\n/**\n * Represents the results from a single
capturing group within a [MatchResult] of [Regex].\n * @param value The value of captured group.\n */\npublic
actual data class MatchGroup(actual val value: String)\n\n/**\n * Represents

```



```

a compiled regular expression. \n * Provides functions to match strings in text with a pattern, replace the found
occurrences and split text around matches. \n * \n * 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)
\n * and
[http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp). \n
*\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set of
[options]. \n *\n 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 /** The set of options that were used to
create this regular expression. *\n public actual val options: Set<RegexOption> = options.toSet()\n private val
nativePattern: Regex = Regex(pattern, options.map { it.value }.joinToString(separator = "\\") + "\\g")\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 /** 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 /** 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 * @return An instance of
[MatchResult] if match was found or `null` otherwise. \n * \n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS") \n public actual fun find(input:
CharSequence, startIndex: Int = 0): MatchResult? = nativePattern.findNext(input.toString(), startIndex)\n\n /** \n
* Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified
[startIndex]. \n * \n * @sample samples.text.Regexp.findAll \n * \n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS") \n public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> = \n
generateSequence({ find(input, startIndex) }, { match -> match.next() })\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
if (pattern.startsWith('^') && pattern.endsWith('$'))\n return find(input)\n else\n return
Regex("^${pattern.trimStart('^').trimEnd('$')}$", options).find(input)\n }\n\n /** \n * Replaces all
occurrences of this regular expression in the specified [input] string with specified [replacement] expression. \n
*\n * @param replacement A replacement expression that can include substitutions. See
[String.prototype.replace](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details. \n * \n public
actual fun replace(input:
CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)\n\n
/** \n * Replaces all occurrences of this regular expression in the specified [input] string with the result of \n *
the given function [transform] that takes [MatchResult] and returns a string to be used as a \n * replacement for
that match. \n * \n public actual inline fun replace(input: CharSequence, transform: (MatchResult) ->
CharSequence): String {\n var match = find(input)\n if (match == null) return input.toString()\n\n var
lastStart = 0\n val length = input.length\n val sb = StringBuilder(length)\n do {\n val
foundMatch = match!!\n sb.append(input, lastStart, foundMatch.range.start)\n
sb.append(transform(foundMatch))\n lastStart = foundMatch.range.endInclusive + 1\n match =

```

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foundMatch.next()\n    } while (lastStart < length && match != null)\n\n
if (lastStart < length) {\n    sb.append(input, lastStart, length)\n    }\n    return sb.toString()\n }\n\n
/**\n * Replaces the first occurrence of this regular expression in the specified [input] string with specified
[replacement] expression.\n * @param replacement A replacement expression that can include
substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\n */\n public
actual fun replaceFirst(input: CharSequence, replacement: String): String {\n    val nonGlobalOptions =
options.map { it.value }.joinToString(separator = "\\")\n    return input.toString().nativeReplace(RegExp(pattern,
nonGlobalOptions), replacement)\n }\n\n
/**\n * Splits the [input] CharSequence around matches of this
regular expression.\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 */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun split(input:
CharSequence, limit: Int = 0): List<String> {\n    require(limit >= 0) { "Limit must be non-negative, but was
$limit" }\n    val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n    val result =
mutableListOf<String>()\n    var lastStart = 0\n    for (match in matches) {\n
result.add(input.subSequence(lastStart, match.range.start).toString())\n        lastStart = match.range.endInclusive +
1\n    }\n    result.add(input.subSequence(lastStart, input.length).toString())\n    return result\n }\n\n
/**\n * Returns the string representation of this regular expression, namely the [pattern] of this regular
expression.\n * Note that another regular expression constructed from the same pattern string may have
different [options]\n
* and may match strings differently.\n */\n public override fun toString(): String =
nativePattern.toString()\n actual companion object {\n    /**\n * Returns a regular expression that
matches the specified [literal] string literally.\n * No characters of that string will have special meaning when
searching for an occurrence of the regular expression.\n */\n public actual fun fromLiteral(literal: String):
Regex = Regex(escape(literal))\n    /**\n * Returns a regular expression pattern string that matches the
specified [literal] string literally.\n * No characters of that string will have special meaning when searching for
an occurrence of the regular expression.\n */\n public actual fun escape(literal: String): String =
literal.nativeReplace(patternEscape, "\\|\\$&")\n    /**\n * 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    private val patternEscape = RegExp("\\\\\\"[-\\|\\^$*+?.()\\[\\]{}]|\\\\"|'g")\n    private val
replacementEscape = RegExp("\\\\"|\\$|\\'|'g")\n }\n\n
/** Creates a regular expression from the specified
[pattern] string and the specified single [option]. */\n@Deprecated("Provided for binary compatibility", level =
DeprecationLevel.HIDDEN)\n@jsName("Regex_sb3q2\\$")\npublic fun Regex_0(pattern: String, option:
RegexOption): Regex = Regex(pattern, setOf(option))\n\n
/** Creates a regular expression from the specified
[pattern] string and the default options. */\n@Deprecated("Provided for binary compatibility", level =
DeprecationLevel.HIDDEN)\n@jsName("Regex_61zpoe\\$")\npublic fun Regex_1(pattern: String): Regex
= Regex(pattern, emptySet())\n\n\n\nprivate fun RegExp.findNext(input: String, from: Int): 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\n
private var
groupValues_: List<String>? = null\n        override val groupValues: List<String>\n            get() {\n                if
(groupValues_ == null) {\n                    groupValues_

```

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= object : AbstractList<String>() {
    override val size: Int get() = match.length
    override fun get(index: Int): String = match[index]
    groupValues_!
    override fun next(): MatchResult? = this@findNext.findNext(input, if
(range.isEmpty()) range.start + 1 else range.endInclusive + 1)
}
"/**
 * 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.text
import
kotlin.js.RegExp
@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(ch: Char,
fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)
@kotlin.internal.InlineOnly
internal actual
inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(),
fromIndex)
/**
 * Returns `true` if this string starts with the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return
        nativeStartsWith(prefix, 0)
    else
        return regionMatches(0, prefix, 0, prefix.length, ignoreCase)
}
/**
 * Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeStartsWith(prefix, startIndex)
    else
        return regionMatches(startIndex, prefix, 0, prefix.length,
ignoreCase)
}
/**
 * Returns `true` if this string ends with the specified suffix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return
        nativeEndsWith(suffix)
    else
        return regionMatches(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)
}
public fun String.matches(regex: String): Boolean {
    val result = this.match(regex)
    return result != null && result.size != 0
}
public actual fun CharSequence.isBlank(): Boolean = length == 0 || (if
(this is String) this else
this.toString()).matches("^\\s+$")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGU
MENTS")
public actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean =
    if (this ==
null)
        other == null
    else if (!ignoreCase)
        this == other
    else
        other != null &&
this.toLowerCase() ==
other.toLowerCase()
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
actual fun CharSequence.regionMatches(thisOffset: Int,
other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)
/**
 * Returns a copy of this string
 having its first letter uppercased, or the original string,
 * if it's empty or already starts with an upper case letter.
 */
@sample samples.text.Strings.capitalize
public actual fun String.capitalize(): String {
    return if
(isNotEmpty()) substring(0, 1).toUpperCase() + substring(1)
else this
}
/**
 * Returns a copy of this string
 having its first letter lowercased, or the original string,
 * if it's empty or already starts with a lower case letter.
 */
@sample samples.text.Strings.decitalize
public actual fun String.decitalize(): String {
    return if
(isNotEmpty()) substring(0, 1).toLowerCase() + substring(1)
else this
}
/**
 * Returns a string containing this
 char sequence repeated [n] times.
 * @throws [IllegalArgumentException] when
 n < 0.
 */
public 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
        }
    }
}
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "gi" else "g"),

```

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Regex.escapeReplacement(newValue))\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S")\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "gi" else "g"),
newChar.toString())\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "i" else ""),
Regex.escapeReplacement(newValue))\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S")\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "i" else ""),
newChar.toString())\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/** Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException]
otherwise. */\n\n@UseExperimental(ExperimentalStdlibApi::class)\n\nprivate fun malformed(size: Int, index: Int,
throwOnMalformed: Boolean): Int {\n    if (throwOnMalformed) throw CharacterCodingException("Malformed
sequence starting at ${index - 1}")\n    return -size\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 * @throws CharacterCodingException if the
pair is malformed and [throwOnMalformed] is true.\n */\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].toInt()\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/** 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 * @throws
CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\n */\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 0xF8\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 *
@throws CharacterCodingException if the sequence of three bytes is malformed and [throwOnMalformed] is
true.\n */\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\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\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\n    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -
0x1E080\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 * @throws CharacterCodingException

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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 * 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
`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++].toInt()\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 6)
and 0x3F) or 0x80).toByte()\n        bytes[byteIndex++] = (((code shr 12) 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        }\n        bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[1]\n
      }\n      else {\n        bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()\n
      }\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  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 = "\\uFFFF"\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n */\n * @param bytes the byte array to decode.\n
* @param startIndex the start offset (inclusive) of the array to be decoded.\n

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* @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
* @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n
* internal 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
                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 0x3FFF) or 0xDC00\n
                        stringBuilder.append(high.toChar())\n
                        stringBuilder.append(low.toChar())\n
                        byteIndex += 3\n
                    }\n
                }\n
                else -> {\n
                    malformed(0, byteIndex, throwOnMalformed)\n
                    stringBuilder.append(REPLACEMENT_CHAR)\n
                }\n
            }\n
        }\n
    }\n
    return stringBuilder.toString()\n
}"/\n
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*/\n
package kotlin.time\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
public 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
@SinceKotlin("1.3")\n
@ExperimentalTime\n
internal 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
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*/\n
package kotlin.time\n
import org.w3c.performance.GlobalPerformance\n
import org.w3c.performance.Performance\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
internal 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
    }?: DateNowTimeSource\n
}\n
override fun markNow(): TimeMark = actualSource.markNow()\n
}\n
internal external interface Process {\n
    fun hrtime(time: Array<Double> = definedExternally): Array<Double>\n
}\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
internal

```

```

class HrTimeSource(val process: Process) : TimeSource {
    override fun markNow(): TimeMark = object :
    TimeMark() {
        val startedAt = process.hrtime()
        override fun elapsedNow(): Duration =
        process.hrtime(startedAt).let { (seconds, nanos) -> seconds.seconds + nanos.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 kotlin.time
import
kotlin.js.json
import kotlin.math
actual fun formatToExactDecimals(value: Double, decimals: Int):
String {
    val rounded = if (decimals == 0) {
        value
    } else {
        val pow = 10.0.pow(decimals)
        @Suppress("DEPRECATION", "DEPRECATION_ERROR")
        kotlin.js.Math.round(abs(value) * pow) /
        pow * sign(value)
    }
    return rounded.asDynamic().toFixed(decimals).unsafeCast<String>()
}
internal
actual fun formatUpToDecimals(value: Double, decimals: Int): String {
    return
    value.asDynamic().toLocaleString("en-us", json("maximumFractionDigits" to
    decimals)).unsafeCast<String>()
}
internal
actual fun formatScientific(value: Double): String {
    return
    value.asDynamic().toExponential(2).unsafeCast<String>()
}

```

```

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package
org.w3c.dom
@Deprecated("Use UnionMessagePortOrWindowProxy instead.")
ReplaceWith("UnionMessagePortOrWindowProxy")
typealias UnionMessagePortOrWindow =
UnionMessagePortOrWindowProxy
@Deprecated("Use `as` instead.", ReplaceWith("`as`"))
nvar
HTMMLinkElement.as_ get() = `as` set(value) {
    `as` = value
}
@Deprecated("Use `is`
instead.", ReplaceWith("`is`"))
nvar ElementCreationOptions.is_ get() = `is` set(value) {
    `is` =
    value
}

```

```

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// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!
// See github.com/kotlin/dukat for details
package org.khronos.webgl
import kotlin.js
import
org.w3c.css.masking
import org.w3c.dom
import org.w3c.dom.clipboard
import
org.w3c.dom.css
import org.w3c.dom.events
import org.w3c.dom.mediacapture
import
org.w3c.dom.parsing
import org.w3c.dom.pointerevents
import org.w3c.dom.svg
import
org.w3c.dom.url
import org.w3c.fetch
import org.w3c.files
import org.w3c.notifications
import
org.w3c.performance
import org.w3c.workers
import org.w3c.xhr
public external interface
WebGLContextAttributes {
    var alpha: Boolean? /* = true */
    get() = definedExternally
    set(value) =
    definedExternally
    var depth: Boolean? /* = true */
    get() = definedExternally
    set(value) =
    definedExternally
    var stencil: Boolean? /* = false */
    get() = definedExternally
    set(value) =
    definedExternally
    var antialias: Boolean? /* = true */
    get()
    = definedExternally
    set(value) = definedExternally
    var premultipliedAlpha: Boolean? /* = true */
    get() = definedExternally
    set(value) = definedExternally
    var preserveDrawingBuffer: Boolean? /* = false
    */
    get() = definedExternally
    set(value) = definedExternally
    var
    preferLowPowerToHighPerformance: Boolean? /* = false */
    get() = definedExternally
    set(value) =
    definedExternally
    var failIfMajorPerformanceCaveat: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public 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\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\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\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\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\npublic external
abstract class WebGLShader : WebGLObject\n\n**\n * Exposes the JavaScript
[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\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
*/\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 */\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 */\n\npublic external abstract class WebGLShaderPrecisionFormat {\n  open val rangeMin: Int\n  open val
rangeMax: Int\n  open val precision:
Int\n}\n\n\n@Suppress(\n"NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\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,

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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 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(shader: Int, precision: 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 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 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: 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 * Exposes the JavaScript
 [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin \n
 * \n public 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
 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 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
val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
val FRAMEBUFFER_UNSUPPORTED: Int
val FRAMEBUFFER_BINDING: Int
val RENDERBUFFER_BINDING: Int
val MAX_RENDERBUFFER_SIZE: Int
val INVALID_FRAMEBUFFER_OPERATION: Int
val UNPACK_FLIP_Y_WEBGL: Int
val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
val CONTEXT_LOST_WEBGL: Int
val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
val BROWSER_DEFAULT_WEBGL: Int
}

Exposes the JavaScript [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin
public external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event {
    open val statusMessage: String
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface WebGLContextEventInit : EventInit {
    var statusMessage: String? = ""
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun WebGLContextEventInit(statusMessage: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WebGLContextEventInit {
    val o = js("{}")
    o["statusMessage"] = statusMessage
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

Exposes the JavaScript [ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin
public external open class ArrayBuffer(length: Int) : BufferDataSource {
    open val byteLength: Int
    fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer
    companion object {
        fun isView(value: Any?): Boolean
    }
}

Exposes the JavaScript [ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin
public external interface ArrayBufferView : BufferDataSource {
    val buffer: ArrayBuffer
    val byteOffset: Int
    val byteLength: Int
}

Exposes the JavaScript [Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin
public external open class Int8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Int8Array)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Int8Array, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Int8Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun Int8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }

Exposes the JavaScript [Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin
public external open class Uint8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8Array)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint8Array, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint8Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }

Exposes the JavaScript [Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin
public external open class Uint8ClampedArray : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8ClampedArray)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    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    @kotlin.internal.InlineOnly\n    public inline operator fun
Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\n\n    @kotlin.internal.InlineOnly\n    public 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     */\n    public 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        @kotlin.internal.InlineOnly\n        public inline operator fun Int16Array.get(index: Int): Short =
asDynamic()[index]\n\n        @kotlin.internal.InlineOnly\n        public 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         */\n        public 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:
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            @kotlin.internal.InlineOnly\n            public inline operator fun Uint16Array.get(index: Int): Short =
asDynamic()[index]\n\n            @kotlin.internal.InlineOnly\n            public 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            public 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                @kotlin.internal.InlineOnly\n                public inline operator fun Int32Array.get(index: Int): Int =
asDynamic()[index]\n\n                @kotlin.internal.InlineOnly\n                public 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                public 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                    @kotlin.internal.InlineOnly\n                    public inline operator fun
Uint32Array.get(index: Int): Int = asDynamic()[index]\n\n                    @kotlin.internal.InlineOnly\n                    public 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                    public 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@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int): Float =
asDynamic()[index]\n\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 */\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@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int): Double =
asDynamic()[index]\n\n@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 2010-2019 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// 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.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external interface ClipboardEventInit : EventInit {\n  var clipboardData: DataTransfer? /*
= null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@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

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[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@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-
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// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\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.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class
MediaList : ItemArrayLike<String> {\n  open var mediaText: String\n  fun appendMedium(medium: String)\n
fun deleteMedium(medium: String)\n  override fun item(index: Int):
String?\n}\n\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@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\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 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 * 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 * 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 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

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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@kotlin.internal.InlineOnly\npublic inline operator
fun 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 2010-2019 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// 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.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\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@kotlin.internal.InlineOnly\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

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```

FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {
    open val relatedTarget: EventTarget?
}
companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}
public external interface FocusEventInit : UIEventInit {
    var relatedTarget: EventTarget? /* = null */
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun FocusEventInit(relatedTarget: EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FocusEventInit {
    val o = js("{}")
    o["relatedTarget"] = relatedTarget
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
/** Exposes the JavaScript [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin
 */
public external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent, UnionElementOrMouseEvent {
    open val screenX: Int
    open val screenY: Int
    open val clientX: Int
    open val clientY: Int
    open val ctrlKey: Boolean
    open val shiftKey: Boolean
    open val altKey: Boolean
    open val metaKey: Boolean
    open val button: Short
    open val buttons: Short
    open val relatedTarget: EventTarget?
    open val region: String?
    open val pageX: Double
    open val pageY: Double
    open val x: Double
    open val y: Double
    open val offsetX: Double
    open val offsetY: Double
    fun getModifierState(keyArg: String): Boolean
}
companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}
public external interface MouseEventInit : EventModifierInit {
    var screenX: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var screenY: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var clientX: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var clientY: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var button: Short? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var buttons: Short? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var relatedTarget: EventTarget? /* = null */
    get() = definedExternally
    set(value) = definedExternally
    var region: String? /* = null */
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public 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 {
    val o = js("{}")
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}

```

```

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 */\n        get() = definedExternally\n
set(value) = definedExternally\n}\n\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    @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 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@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@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@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 * 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// 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.css.masking.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\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@kotlin.internal.InlineOnly\npublic inline
operator fun HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\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 *
 public external abstract class HTMLFormControlsCollection : HTMLCollection\n * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n *
 public external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n open var value: String\n }\n * Exposes the JavaScript

[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n *
 public 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 @kotlin.internal.InlineOnly\n public inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n * Exposes the JavaScript

[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n *
 public external abstract class HTMLInputElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n open var title: String\n open var lang: String\n open var translate: Boolean\n open var dir: String\n open val dataset: DOMStringMap\n open var hidden: Boolean\n open var tabIndex: Int\n open var accessKey: String\n open val accessKeyLabel: String\n open var draggable: Boolean\n open val dropzone: DOMTokenList\n open var contextMenu: HTMLMenuElement?\n open var spellcheck: Boolean\n open var innerText: String\n open val offsetParent: Element?\n open val offsetTop: Int\n open val offsetLeft: Int\n open val offsetWidth: Int\n open val offsetHeight: Int\n fun click()\n fun focus()\n fun blur()\n fun forceSpellCheck()\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 * Exposes the JavaScript

[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n *
 public external abstract class HTMLUnknownElement : HTMLInputElement {\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 * Exposes the JavaScript

[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n *
 public external abstract class DOMStringMap\n @kotlin.internal.InlineOnly\n public inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]\n @kotlin.internal.InlineOnly\n public inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }\n * Exposes the JavaScript

[HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n *
 public external abstract class HTMLHtmlElement : HTMLInputElement {\n open var version: 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 [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to
Kotlin\n */\npublic 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:

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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
[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n */\npublic
external abstract class
HTMLMetaElement : HTMLElement {\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 : HTMLElement, 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 : HTMLElement, 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:

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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
*/\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\n
*/\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:

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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 : HTMLElement {\n open var cite: 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 [HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to Kotlin\n */\npublic external abstract class HTMLLOListElement : HTMLElement {\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 [HTMLLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLUListElement) to Kotlin\n */\npublic external abstract class HTMLLUListElement : HTMLElement {\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 */\npublic external abstract class HTMLLIElement : HTMLElement {\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 [HTMLDLListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDLListElement) to

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Kotlin\n *\\npublic external abstract class HTMLDListElement : HTMLElement {\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
*\npublic external abstract class HTMLDivElement : HTMLElement {\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 [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to
Kotlin\n *\\npublic 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 *\\npublic 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

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[HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\n *\npublic external abstract class HTMLTimeElement : HTMLInputElement {\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 *\npublic external abstract class HTMLSpanElement : HTMLInputElement {\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 [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n *\npublic external abstract class HTMLBRElement : HTMLInputElement {\n open var clear: 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 [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 : HTMLInputElement {\n open var cite: String\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


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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\n        ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val\n        CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:\n        Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val\n        DOCUMENT_NODE:\n        Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val\n        NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val\n        DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val\n        DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:\n        Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\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 srcset: 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\n        TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:\n        Short\n        val ENTITY_NODE:\n        Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val\n        DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val\n        DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val\n        DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val\n        DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val\n        DOCUMENT_POSITION_CONTAINED_BY: Short\n        val\n        DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n}\n\n/**\n * Exposes the JavaScript [HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n *\npublic external abstract class HTMLImageElement : HTMLElement, HTMLORSVGImageElement, TexImageSource {\n    open var alt: String\n    open var src: String\n    open var srcset: String\n    open var sizes:\n    String\n    open var crossOrigin: String?\n    open var useMap: String\n    open var isMap: Boolean\n    open var width: Int\n    open var height: Int\n    open val naturalWidth: Int\n    open val naturalHeight: Int\n    open val complete: Boolean\n    open val currentSrc: String\n    open var referrerPolicy: String\n    open var name:\n    String\n    open var lowsrc: String\n    open var align: String\n    open var hspace: Int\n    open var vspace: Int\n    open var longDesc: String\n    open var border: String\n    open val x: Int\n    open val y: Int\n    companion object\n    {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val\n        CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val\n        ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:\n        Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val\n        DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val\n        DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:\n        Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val\n        DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val\n        DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n}\n\n/**\n * Exposes the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n *\npublic external abstract class HTMLIFrameElement : HTMLElement {\n    open var src: String\n    open var srcdoc: String\n    open var name: String\n    open val sandbox: DOMTokenList\n    open var\n    allowFullscreen: Boolean\n    open var allowUserMedia: Boolean\n    open var width: String\n    open var height:\n    String\n    open var referrerPolicy: String\n    open val contentDocument: Document?\n    open val contentWindow:\n    Window?\n    open var align: String\n    open var scrolling: String\n    open var frameborder: String\n    open var
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longDesc: String\n  open var marginHeight: String\n  open var marginWidth: String\n
  fun getSVGDocument(): Document?\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  **\n  * Exposes the JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n\n  *\n\n  public external abstract class HTMLEmbedElement : HTMLElement {\n    open var src: String\n    open var type: String\n    open var width: String\n    open var height: String\n    open var align: String\n    open var name: String\n    fun getSVGDocument(): Document?\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    **\n    * Exposes the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\n\n    *\n\n    public 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 var 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      **\n      * Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n\n      *\n\n      public 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

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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 * \n public 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
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

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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 * 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: dynamic \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 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 \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 * Exposes the JavaScript
[MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin \n * \n public 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 * Exposes the
JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin \n
* \n public 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 @kotlin.internal.InlineOnly \n public 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 * \n public 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 } \n \n /** \n * Exposes
the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin \n
* \n public 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) ->

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dynamic)?\n  open var onremovetrack: ((TrackEvent) -> dynamic)?\n  fun getTrackById(id: String):
VideoTrack?\n}\n\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}\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@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  fun addCue(cue: TextTrackCue)\n  fun removeCue(cue: TextTrackCue)\n}\n\npublic external
abstract class TextTrackCueList {\n  open val length: Int\n  fun getCueById(id: String):
TextTrackCue?\n}\n\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@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 : 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

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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
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement)
to Kotlin\n */\npublic external abstract class HTMLAreaElement : HTMLInputElement, 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 varreferrerPolicy: 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
external abstract class HTMLTableElement : HTMLInputElement {\n    open var caption:
HTMLTableCaptionElement?\n    open var tHead: HTMLTableSectionElement?\n    open var tFoot:
HTMLTableSectionElement?\n    open val tBodies: HTMLCollection\n    open val rows: HTMLCollection\n    open
var align: String\n    open var border: String\n    open var frame: String\n    open var rules: String\n    open var
summary: String\n    open var width: String\n    open var bgColor: String\n    open var cellPadding: String\n    open
var cellSpacing: String\n    fun createCaption(): HTMLTableCaptionElement\n    fun deleteCaption()\n    fun
createTHead(): HTMLTableSectionElement\n    fun deleteTHead()\n    fun createTFoot(): HTMLTableSectionElement\n    fun deleteTFoot()\n    fun
createTBody(): HTMLTableSectionElement\n    fun insertRow(index: Int = definedExternally):
HTMLTableRowElement\n    fun deleteRow(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
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : 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\nval 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}
```

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n/**\n * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n
*\npublic external abstract class HTMLTableColElement : HTMLElement {\n open var span: Int\n open var
align: String\n open var ch: String\n open var chOff: String\n open var vAlign: 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
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin\n
*\npublic external abstract class HTMLTableSectionElement : HTMLElement {\n open val rows:
HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign:
String\n fun insertRow(index: Int = definedExternally): HTMLElement\n fun deleteRow(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
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n
*\npublic 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
*\npublic 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:

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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
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
    } \n} \n \n @kotlin.internal.InlineOnly \n public inline operator fun HTMLFormElement.get(index: Int): Element? =
asDynamic()[index] \n \n @kotlin.internal.InlineOnly \n public 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 * \n public external abstract class HTMLLabelElement : HTMLElement { \n    open val form:
HTMLFormElement? \n    open var htmlFor: String \n    open val control: HTMLElement? \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
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin \n * \n public
external abstract class HTMLInputElement : HTMLElement { \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:
HTMLElement? \n    open var max: String \n    open var maxLength: Int \n    open var min: String \n    open var

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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
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement)
to Kotlin\n *\n\npublic external abstract class HTMLButtonElement : HTMLInputElement {\n open var autofocus:
Boolean\n open var disabled: Boolean\n open val form: HTMLFormElement?\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 name: String\n open var type: String\n open var value: String\n open var
menu: HTMLMenuElement?\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
[HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n *\n\npublic
external abstract class HTMLSelectElement : HTMLInputElement, ItemArrayLike<Element> {\n open var
autocomplete: String\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form:
HTMLFormElement?\n open var multiple: Boolean\n open var name: String\n open var required:
Boolean\n open var size: Int\n open val type: String\n open val options: HTMLOptionsCollection\n override
var length: Int\n open val selectedOptions: HTMLCollection\n open var selectedIndex: Int\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 namedItem(name: String): HTMLOptionElement?\n fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun
remove(index: Int)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun

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setCustomValidity(error: String)\n  override fun item(index: Int): 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@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.set(index: Int,
option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n
*/\npublic external abstract class HTMLDataListElement : HTMLElement
{\n  open val options: 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
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*/\npublic external abstract class HTMLOptGroupElement
: HTMLElement, 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 */\npublic external abstract class HTMLOptionElement : HTMLElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n  open var disabled: Boolean\n  open val 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

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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
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n
*\n\npublic 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    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
[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\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

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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
*\npublic external abstract class HTMLProgressElement : HTMLElement {\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
    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 : HTMLElement {\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}

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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 [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n */\npublic external abstract class HTMLLegendElement : HTMLInputElement {\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 * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\n */\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 HTMLMenuItemElement : 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

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    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@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/**\n * Exposes the JavaScript
[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n
*/\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 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\npublic external abstract class HTMLScriptElement : HTMLInputElement, 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\npublic external abstract class HTMLTemplateElement : HTMLInputElement {\n    open val content:
DocumentFragment\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
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n */\npublic
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\npublic external interface
AssignedNodesOptions {\n    var flatten: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic 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 */\npublic 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\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
CanvasRenderingContext2DSettings {\n    var alpha: Boolean? /* = true */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic 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 */\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,
CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,

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CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n
open val canvas: HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n fun save()\n fun
restore()\n}\n\npublic 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\npublic external interface CanvasCompositing {\n var
globalAlpha: Double\n var globalCompositeOperation: String\n}\n\npublic external interface
CanvasImageSmoothing {\n var imageSmoothingEnabled: Boolean\n var imageSmoothingQuality:
ImageSmoothingQuality\n}\n\npublic 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\npublic
external interface CanvasShadowStyles {\n var shadowOffsetX: Double\n var shadowOffsetY: Double\n var
shadowBlur: Double\n var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n var filter:
String\n}\n\npublic 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\npublic 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
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

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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 * Exposes the
JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\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 */\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 */\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 get() = definedExternally\n set(value) = definedExternally\n var fillRule: CanvasFillRule? /* =
CanvasFillRule.NONZERO */\n get() = definedExternally\n set(value) = definedExternally\n var id:
String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var parentID: String? /*
= null */\n get() = definedExternally\n set(value) = definedExternally\n var cursor: String? /* = \"inherit\"
*/\n get() = definedExternally\n set(value) = definedExternally\n var control: Element? /* = null */\n
get() = definedExternally\n set(value) = definedExternally\n var label: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n var role: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\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 *\n\npublic external abstract class ImageBitmapRenderingContext {\n    open val canvas:
HTMLCanvasElement\n    fun transferFromImageBitmap(bitmap:
ImageBitmap?)\n}\n\n\npublic external interface ImageBitmapRenderingContextSettings {\n    var alpha: Boolean? /*
= true */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n    val o
= js("{}")\n    o["alpha"] = alpha\n    return o\n}\n\n\n/**\n * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n *\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\n\npublic external interface ElementDefinitionOptions {\n    var
extends: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {\n    val o =
js("{}")\n    o["extends"] = extends\n    return o\n}\n\n\npublic external interface ElementContentEditable {\n
var contentEditable: String\n    val isContentEditable: Boolean\n}\n\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n *\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/**\n * Exposes the JavaScript
[DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n *\n\npublic
external abstract class DataTransferItemList {\n    open val length: Int\n    fun add(data: String, type: String):
DataTransferItem?\n    fun add(data: File): DataTransferItem?\n    fun remove(index: Int)\n    fun
clear()\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DataTransferItemList.get(index: Int):
DataTransferItem? = asDynamic()[index]\n\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n *\n\npublic
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\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/TouchEvent) to Kotlin\n *\n\npublic external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n    open val
dataTransfer: DataTransfer?\n}\n\n\ncompanion 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 DragEventInit : MouseEventInit {\n    var
dataTransfer: DataTransfer? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic 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"] =

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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 */\npublic 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 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@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 * Exposes the JavaScript
[History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\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 */\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 *\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@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
*\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@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 *\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
get() = definedExternally\n
set(value) = definedExternally\n}\n\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\npublic 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 {
    open val message: String
    open val filename: String
    open val lineno: Int
    open val colno: Int
    open val error: Any?
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
public external interface ErrorEventInit : EventInit {
    var message: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var filename: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var lineno: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var colno: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var error: Any? /* = null */
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
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 {
    val o = js("{}")
    o["message"] = message
    o["filename"] = filename
    o["lineno"] = lineno
    o["colno"] = colno
    o["error"] = error
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
/** Exposes the JavaScript [PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin */
public external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {
    open val promise: Promise<Any?>
    open val reason: Any?
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
public external interface PromiseRejectionEventInit : EventInit {
    var promise: Promise<Any?>?
    get() = definedExternally
    set(value) = definedExternally
    var reason: Any?
    get() = definedExternally
    set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun PromiseRejectionEventInit(promise: Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {
    val o = js("{}")
    o["promise"] = promise
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
/** Exposes the JavaScript [GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin */
public external interface GlobalEventHandlers {
    var onabort: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onblur: ((FocusEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncancel: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncanplay: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncanplaythrough: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onchange: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onclick: ((MouseEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var onclose: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncontextmenu: ((MouseEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var oncuechange: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondblclick: ((MouseEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondrag: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragend: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragenter: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragexit: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragleave: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragover: ((DragEvent) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
    var ondragstart: ((DragEvent) -> dynamic)?
    get() = definedExternally
}

```

```

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  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

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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,

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NavigatorPlugins, NavigatorConcurrentHardware {\n  open val clipboard: Clipboard\n  open val mediaDevices:
MediaDevices\n  open val maxTouchPoints: Int\n  open val serviceWorker: ServiceWorkerContainer\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 */\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 */\n\npublic
external interface NavigatorLanguage {\n  val language: String\n  val languages: Array<out String>\n}\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\n\npublic external interface NavigatorCookies {\n  val
cookieEnabled: Boolean\n}\n\n\n/**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins)
to Kotlin\n */\n\npublic external interface NavigatorPlugins {\n  val plugins: PluginArray\n  val mimeTypes:
MimeTypeArray\n  fun javaEnabled(): Boolean\n}\n\n\n/**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\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\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun PluginArray.get(index: Int): Plugin? =
asDynamic()[index]\n\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun PluginArray.get(name: String):
Plugin? = asDynamic()[name]\n\n\n\n/**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\n\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType>
{\n  override fun item(index: Int): MimeType?\n  fun namedItem(name: String):
MimeType?\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun MimeTypeArray.get(index: Int):
MimeType? = asDynamic()[index]\n\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\n\n\n\n/**\n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\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\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Plugin.get(index: Int): MimeType? =
asDynamic()[index]\n\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name]\n\n\n\n/**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType)
to Kotlin\n */\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\n/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\n\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n  open val width: Int\n  open val height:
Int\n  fun close()\n}\n\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

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    var resizeMode: Int? get() = definedExternally set(value) = definedExternally var resizeMode:
Int? get() = definedExternally set(value) = definedExternally var resizeMode: Int? get() = definedExternally set(value) =
definedExternally} } @kotlin.internal.InlineOnly public inline fun ImageBitmapOptions(imageOrientation:
ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? =
PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeMode: Int? = undefined, resizeMode: Int? = undefined, resizeMode:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n    val o = js("{}")\n    o["imageOrientation"]
= imageOrientation\n    o["premultiplyAlpha"] = premultiplyAlpha\n    o["colorSpaceConversion"] =
colorSpaceConversion\n    o["resizeWidth"] = resizeMode\n    o["resizeHeight"]
= resizeMode\n    o["resizeQuality"] = resizeMode\n    return o}\n\n/** Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n\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\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@kotlin.internal.InlineOnly public 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? = 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/** Exposes the JavaScript
[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n\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\n\npublic external interface EventSourceInit {\n    var withCredentials: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally}\n\n\n@kotlin.internal.InlineOnly public inline fun
EventSourceInit(withCredentials:
Boolean? = false): EventSourceInit {\n    val o = js("{}")\n    o["withCredentials"] = withCredentials\n    return
o}\n\n\n/** Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to
Kotlin\n\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

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    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 *\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\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@kotlin.internal.InlineOnly\n\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/**\n * Exposes the JavaScript
[MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n *\n\npublic external
open class MessageChannel {\n    open val port1: MessagePort\n    open val port2: MessagePort\n}\n\n\n/**\n *
Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n
*\n\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/**\n * Exposes the JavaScript
[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n *\n\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/**\n * Exposes the
JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n
*\n\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
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/**\n * Exposes the JavaScript
[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to
Kotlin\n *\n\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/**\n * Exposes the JavaScript
[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to
Kotlin\n *\n\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/**\n * Exposes
the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n
*\n\n\npublic external interface AbstractWorker {\n    var onerror: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n\n/**\n * Exposes the JavaScript
[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n *\n\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\n\n\npublic external interface
WorkerOptions {\n    var type: WorkerType? /* = WorkerType.CLASSIC */\n    get() = definedExternally\n

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set(value) = definedExternally\n  var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n
get() = definedExternally\n
    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type:
WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT):
WorkerOptions {\n  val o = js("{}")\n  o["type"] = type\n  o["credentials"] = credentials\n  return
o}\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@kotlin.internal.InlineOnly\npublic inline
operator fun Storage.get(key: String): String? = asDynamic()[key]\n\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
*/\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@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\npublic external abstract class HTMLAppletElement :

```

```

HTMLDivElement {
    open var align: String
    open var alt: String
    open var archive: String
    open var code: String
    open var codeBase: String
    open var height: String
    open var hspace: Int
    open var name: String
    open var _object: String
    open var vspace: Int
    open var width: 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 [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin */
@public external abstract class HTMLMarqueeElement : HTMLDivElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height: String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun start()
    fun stop()
    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 [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin */
@public external abstract class HTMLFrameSetElement : HTMLDivElement, 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
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

@public external abstract class HTMLFrameElement : HTMLDivElement {
    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:

```

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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
HTMLDirectoryElement : HTMLElement { \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
[HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin \n * \n\npublic
external abstract class HTMLFontElement : HTMLElement { \n    open var color: String \n    open var face: String \n
open var size: 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\npublic external
interface External { \n    fun AddSearchProvider() \n    fun IsSearchProviderInstalled() \n} \n\npublic external interface
EventInit { \n    var bubbles: Boolean? /* = false */ \n    get() = definedExternally \n    set(value) =
definedExternally \n    var 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@kotlin.internal.InlineOnly \n\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 * \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    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@kotlin.internal.InlineOnly \n\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@kotlin.internal.InlineOnly \n\npublic inline fun EventListenerOptions(capture: Boolean? =

```

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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@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 */\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 */\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 */\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
*/\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 */\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
*/\n\npublic external abstract class NodeList : ItemArrayLike<Node> {\n  override fun item(index: Int):
Node?\n}\n\n@kotlin.internal.InlineOnly\npublic 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\npublic
external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n
  override fun item(index: Int): Element?\n  fun namedItem(name: String):
Element?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(index: Int): Element?
= asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic 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\npublic 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\npublic 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@kotlin.internal.InlineOnly\npublic inline fun

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MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? =
undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? =
undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {
    val o = js("{}")
    o["childList"] = childList
    o["attributes"] = attributes
    o["characterData"] = characterData
    o["subtree"] = subtree
    o["attributeOldValue"] = attributeOldValue
    o["characterDataOldValue"] = characterDataOldValue
    o["attributeFilter"] = attributeFilter
    return o
}

/**
 * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin
 */
public external abstract class MutationRecord {
    open val type: String
    open val target: Node
    open val addedNodes: NodeList
    open val removedNodes: NodeList
    open val previousSibling: Node?
    open val nextSibling: Node?
    open val attributeName: String?
    open val attributeNamespace: String?
    open val oldValue: String?
}

/**
 * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin
 */
public external abstract class Node :
    EventTarget {
    open val nodeType: Short
    open val nodeName: String
    open val baseURI: String
    open val isConnected: Boolean
    open val ownerDocument: Document?
    open val parentNode: Node?
    open val parentElement: Element?
    open val childNodes: NodeList
    open val firstChild: Node?
    open val lastChild: Node?
    open val previousSibling: Node?
    open val nextSibling: Node?
    open var nodeValue: String?
    open var textContent: String?
    fun
    getRootNode(options: GetRootNodeOptions = definedExternally): Node
    fun hasChildNodes(): Boolean
    fun
    normalize()
    fun cloneNode(deep: Boolean = definedExternally): Node
    fun isEqualNode(otherNode: Node?): Boolean
    fun
    isSameNode(otherNode: Node?): Boolean
    fun compareDocumentPosition(other: Node): Short
    fun
    contains(other: Node?): Boolean
    fun lookupPrefix(namespace: String?): String?
    fun
    lookupNamespaceURI(prefix: String?): String?
    fun isDefaultNamespace(namespace: String?): Boolean
    fun
    insertBefore(node: Node, child: Node?): Node
    fun appendChild(node: Node): Node
    fun replaceChild(node:
    Node, child: Node): Node
    fun removeChild(child: Node): Node
}

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
 */
public external interface
GetRootNodeOptions {
    var composed: Boolean? /* = false */
    get() = definedExternally
    set(value) =
    definedExternally
}

@kotlin.internal.InlineOnly
public inline fun GetRootNodeOptions(composed: Boolean?
= false): GetRootNodeOptions {
    val o = js("{}")
    o["composed"] = composed
    return o
}

/**
 * Exposes
 */
the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin
*/
public external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers,
NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {
    open val implementation:
    DOMImplementation
    open val URL: String
    open val documentURI: String
    open val origin: String
    open val compatMode: String
    open val characterSet: String
    open val charset: String
    open val
    inputEncoding: String
    open val contentType: String
    open val doctype: DocumentType?
    open val
    documentElement: Element?
    open val location: Location?
    var domain: String
    open val referrer: String
    var
    cookie: String
    open val lastModified: String
    open val readyState: DocumentReadyState
    var title:
    String
    var dir: String
    var body: HTMLElement?
    open val head: HTMLHeadElement?
    open val
    images: HTMLCollection
    open

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```

val embeds: HTMLCollection\n open val plugins: HTMLCollection\n open val links: HTMLCollection\n
open val forms: HTMLCollection\n open val scripts: HTMLCollection\n open val currentScript:
HTMLOrSVGScriptElement?\n open val defaultView: Window?\n open val activeElement: Element?\n var
designMode: String\n var onreadystatechange: ((Event) -> dynamic)?\n var fgColor: String\n var linkColor:
String\n var vlinkColor: String\n var alinkColor: String\n var bgColor: String\n open val anchors:
HTMLCollection\n open val applets: HTMLCollection\n open val all: HTMLAllCollection\n open val
scrollingElement: Element?\n open val styleSheets: StyleSheetList\n open val rootElement:
SVGSVGElement?\n open val fullscreenEnabled: Boolean\n open val fullscreen: Boolean\n var
onfullscreenchange: ((Event) -> dynamic)?\n var onfullscreenerror: ((Event) -> dynamic)?\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

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```

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 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

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\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@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 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 *\npublic
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

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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
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic 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 */\npublic 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):
Attr?\n    fun getAttributeNodeNS(namespace: String?, localName: String): Attr?\n    fun setAttributeNode(attr:
Attr): Attr?\n
        fun setAttributeNodeNS(attr: Attr): Attr?\n    fun removeAttributeNode(attr: Attr): Attr\n    fun attachShadow(init:
ShadowRootInit): ShadowRoot\n    fun closest(selectors: String): Element?\n    fun matches(selectors: String):
Boolean\n    fun webkitMatchesSelector(selectors: String): Boolean\n    fun
getElementsByTagName(qualifiedName: String): HTMLCollection\n    fun
getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n    fun
getElementsByClassName(classNames: String): HTMLCollection\n    fun insertAdjacentElement(where: String,
element: Element): Element?\n    fun insertAdjacentText(where: String, data: String)\n    fun getClientRects():
Array<DOMRect>\n    fun getBoundingClientRect(): DOMRect\n    fun scrollIntoView()\n    fun
scrollIntoView(arg: dynamic)\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
insertAdjacentHTML(position: String, text: String)\n    fun setPointerCapture(pointerId: Int)\n    fun
releasePointerCapture(pointerId: Int)\n    fun hasPointerCapture(pointerId: Int): Boolean\n    fun requestFullscreen():
Promise<Unit>\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 interface
ShadowRootInit {\n    var mode: ShadowRootMode?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit {\n    val o = js(\"({})\")\n    o[\"mode\"] = mode\n    return o\n}\n\n/**\n *
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin\n *^\n\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n    fun
getNamedItemNS(namespace: String?, localName: String): Attr?\n    fun setNamedItem(attr: Attr): Attr?\n    fun
setNamedItemNS(attr: Attr): Attr?\n    fun removeNamedItem(qualifiedName: String): Attr\n    fun
removeNamedItemNS(namespace: String?, localName: String): Attr\n    override fun item(index: Int): Attr?\n    fun
getNamedItem(qualifiedName:
String): Attr?\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun NamedNodeMap.get(index: Int): Attr?
= asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n *^\n\npublic external abstract class
Attr : Node {\n    open val namespaceURI: String?\n    open val prefix: String?\n    open val localName: String\n
open val name: String\n    open var value: String\n    open val ownerElement: Element?\n    open val specified:
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 [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n
*^\n\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n    open var
data: String\n    open val length: Int\n    fun substringData(offset: Int, count: Int): String\n    fun
appendData(data: String)\n    fun insertData(offset: Int, data: String)\n    fun deleteData(offset: Int, count: Int)\n    fun
replaceData(offset: Int, count: Int, data: 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
[Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n *^\n\npublic external open class Text(data:
String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n    open val wholeText: String\n

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    override val assignedSlot: HTMLSlotElement?
    override val previousElementSibling: Element?
    override val nextElementSibling: Element?
    fun splitText(offset: Int): Text
    override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
    override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
    override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
    override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint
    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
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin
 *
 * public external open class CDATASection : Text {
 *     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 [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin
 *
 * public external abstract class ProcessingInstruction : CharacterData, LinkStyle, 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
 *     }
 * }
 *
 * 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
 *     }
 * }

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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 [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin \n * \n public external open class Range { \n open val startContainer: Node \n open val startOffset: Int \n open val endContainer: Node \n open val endOffset: Int \n open val collapsed: Boolean \n open val commonAncestorContainer: Node \n fun setStart(node: Node, offset: Int) \n fun setEnd(node: Node, offset: Int) \n fun setStartBefore(node: Node) \n fun setStartAfter(node: Node) \n fun setEndBefore(node: Node) \n fun setEndAfter(node: Node) \n fun collapse(toStart: Boolean = definedExternally) \n fun selectNode(node: Node) \n fun selectNodeContents(node: Node) \n fun compareBoundaryPoints(how: Short, sourceRange: Range): Short \n fun deleteContents() \n fun extractContents(): DocumentFragment \n fun cloneContents(): DocumentFragment \n fun insertNode(node: Node) \n fun surroundContents(newParent: Node) \n fun cloneRange(): Range \n fun detach() \n fun isPointInRange(node: Node, offset: Int): Boolean \n fun comparePoint(node: Node, offset: Int): Short \n fun intersectsNode(node: Node): Boolean \n fun getClientRects(): Array<DOMRect> \n fun getBoundingClientRect(): DOMRect \n fun createContextualFragment(fragment: String): DocumentFragment \n \n companion object { \n val START_TO_START: Short \n val START_TO_END: Short \n val END_TO_END: Short \n val END_TO_START: Short \n } \n} \n \n /** \n * Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin \n * \n public external abstract class NodeIterator { \n open val root: Node \n open val referenceNode: Node \n open val pointerBeforeReferenceNode: Boolean \n open val whatToShow: Int \n open val filter: NodeFilter? \n fun nextNode(): Node? \n fun previousNode(): Node? \n fun detach() \n} \n \n /** \n * Exposes the JavaScript [TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin \n * \n public external abstract class TreeWalker { \n open val root: Node \n open val whatToShow: Int \n open val filter: NodeFilter? \n open var currentNode: Node \n fun parentNode(): Node? \n fun firstChild(): Node? \n fun lastChild(): Node? \n fun previousSibling(): Node? \n fun nextSibling(): Node? \n fun previousNode(): Node? \n fun nextNode(): Node? \n} \n \n /** \n * Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin \n * \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface NodeFilter { \n fun acceptNode(node: Node): Short \n \n companion object { \n val FILTER_ACCEPT: Short \n val FILTER_REJECT: Short \n val FILTER_SKIP: Short \n val SHOW_ALL: Int \n val SHOW_ELEMENT: Int \n val SHOW_ATTRIBUTE: Int \n val SHOW_TEXT: Int \n val SHOW_CDATA_SECTION: Int \n val SHOW_ENTITY_REFERENCE: Int \n val SHOW_ENTITY: Int \n val SHOW_PROCESSING_INSTRUCTION: Int \n val SHOW_COMMENT: Int \n val SHOW_DOCUMENT: Int \n val SHOW_DOCUMENT_TYPE: Int \n val SHOW_DOCUMENT_FRAGMENT: Int \n val SHOW_NOTATION: Int \n } \n} \n \n /** \n * Exposes the JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin \n * \n public external abstract class DOMTokenList : ItemArrayLike<String> { \n open var value: String \n fun contains(token: String): Boolean \n fun add(vararg tokens: String) \n fun remove(vararg tokens: String) \n fun toggle(token: String, force: Boolean = definedExternally): Boolean \n fun replace(token: String, newToken: String) \n fun supports(token: String): Boolean \n override fun item(index: Int): String? \n} \n \n @kotlin.internal.InlineOnly \n public inline operator fun DOMTokenList.get(index: Int): String? =

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asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n
*\npublic external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n  open val x:
Double\n  open val y: Double\n  open val z: Double\n  open val w: Double\n  fun matrixTransform(matrix:
DOMMatrixReadOnly): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n *\npublic external open class
DOMPoint : DOMPointReadOnly {\n  constructor(point: DOMPointInit)\n  constructor(x: Double =
definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\n
  override var x: Double\n  override var y: Double\n  override var z: Double\n  override var w:
Double\n}\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n *\npublic external
interface DOMPointInit {\n  var x: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n
  var y: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) = definedExternally\n  var z:
Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) = definedExternally\n  var w: Double? /* =
1.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double?
= 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n  val o = js("{}")\n  o["x"] = x\n  o["y"] = y\n
  o["z"] = z\n  o["w"] = w\n  return o\n}\n\n/**\n * Exposes the JavaScript
[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n *\npublic external open class
DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally,
height: Double = definedExternally) : DOMRectReadOnly {\n  override var x: Double\n  override var y: Double\n
  override var width: Double\n  override var height:
Double\n}\n\n/**\n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n *\npublic
external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n  open val x:
Double\n  open val y: Double\n  open val width: Double\n  open val height: Double\n  open val top: Double\n
  open val right: Double\n  open val bottom: Double\n  open val left: Double\n}\n\npublic external interface
DOMRectInit {\n  var x: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var y: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var width: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var height: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x:
Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n  val o =
js("{}")\n  o["x"] = 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@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

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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):
```

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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():
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Float64Array\n}\n\n/**\n * Exposes the JavaScript

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[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,
```

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y: Double, z: Double, angle: Double): DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun
skewYSelf(sy: Double): DOMMatrix\n fun 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@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
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[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@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}
```



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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@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@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@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType? =
CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\n    val o = js("{}")\n
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@kotlin.internal.InlineOnly\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 *\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:

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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 */\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@kotlin.internal.InlineOnly\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 */\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 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

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    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

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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
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: ((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  public external interface
UnionElementOrRadioNodeList\n  public external interface
UnionHTMLOptGroupElementOrHTMLOptionElement\n  public external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n  public external interface UnionElementOrMouseEvent\n  public
external interface RenderingContext\n  public external interface HTMLOrSVGImageElement :
CanvasImageSource\n  public external interface CanvasImageSource : ImageBitmapSource\n  public external
interface ImageBitmapSource\n  public external interface UnionMessagePortOrWindowProxy\n  public external
interface HTMLOrSVGScriptElement\n  /* please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n  public external interface
DocumentReadyState {\n    companion object\n  }\n  public inline val DocumentReadyState.Companion.LOADING:
DocumentReadyState get() = "loading".asDynamic().unsafeCast<DocumentReadyState>()\n  public
inline val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
"interactive".asDynamic().unsafeCast<DocumentReadyState>()\n  public inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
"complete".asDynamic().unsafeCast<DocumentReadyState>()\n  /* please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n  public external interface
CanPlayTypeResult {\n    companion object\n  }\n  public inline val CanPlayTypeResult.Companion.EMPTY:
CanPlayTypeResult get() = "".asDynamic().unsafeCast<CanPlayTypeResult>()\n  public inline val
CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
"maybe".asDynamic().unsafeCast<CanPlayTypeResult>()\n  public inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
"probably".asDynamic().unsafeCast<CanPlayTypeResult>()\n  /* please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n  public external interface
TextTrackMode {\n    companion object\n  }\n  public inline val TextTrackMode.Companion.DISABLED:
TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()\n  public inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
"hidden".asDynamic().unsafeCast<TextTrackMode>()\n  public inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
"showing".asDynamic().unsafeCast<TextTrackMode>()\n  /* please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n  public external interface TextTrackKind
{\n    companion object\n  }\n  public inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() =

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\"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/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface SelectionMode
{\n  companion object\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/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface CanvasFillRule {\n  companion object\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/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
ImageSmoothingQuality {\n  companion object\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/* please, don't implement
this interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
CanvasLineCap {\n  companion object\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/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
CanvasLineJoin {\n  companion object\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 CanvasLineJoin.Companion.MITER:
CanvasLineJoin
get() = \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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:

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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\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\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\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\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\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\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\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\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\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\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() =
"default".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\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\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface ResizeQuality
{\n companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() =

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\"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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CSSBoxType {\n
  companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN: 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 2010-2019 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// 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.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport

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org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\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 *\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 *\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@kotlin.internal.InlineOnly\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 *\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit =
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\npublic external interface ResponseInit {\n  var
status: Short? /* = 200 */\n  get() = definedExternally\n

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    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@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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
RequestType {\n    companion object\n}\n\npublic inline val RequestType.Companion.EMPTY: RequestType get()
= \"\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.AUDIO:
RequestType get() = \"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.FONT:
RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.IMAGE: RequestType get() =
\"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT:
RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.STYLE: RequestType get() =
\"style\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.TRACK:
RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/*
please, don't implement this interface!
*/\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
RequestDestination {\n    companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY:
RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.DOCUMENT:
RequestDestination get() = \"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
\"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.FONT: RequestDestination get() =
\"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
\"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
\"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
\"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
\"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.REPORT:
RequestDestination get() = \"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".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

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RequestDestination.Companion.XSLT: RequestDestination get() =
`"xslt".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this
interface! *\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\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@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\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@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\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@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\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@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\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 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 2010-2019 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// 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

```

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kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\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 {\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@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSupportedConstraints(width:
Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, 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

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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@kotlin.internal.InlineOnly\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@kotlin.internal.InlineOnly\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, 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"] =

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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@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 *\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:
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@kotlin.internal.InlineOnly\npublic

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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 * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n
*/\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\n  open val track: MediaStreamTrack\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 MediaStreamTrackEventInit : EventInit {\n  var track: MediaStreamTrack?\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic 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\npublic external open class OverconstrainedErrorEvent(type: String, eventInitDict:
OverconstrainedErrorEventInit) : Event {\n  open val error: dynamic\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 OverconstrainedErrorEventInit : EventInit {\n  var error: dynamic /* =
null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic 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 * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n
*/\npublic 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
*/\npublic
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\npublic 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
*/\npublic 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@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\npublic external interface
ConstrainablePattern {\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 *
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@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@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@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@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@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@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@kotlin.internal.InlineOnly\npublic inline fun Capabilities():
Capabilities {\n val o = js("{}")\n return o\n}\n\npublic external interface
Settings\n\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n val o = js("{}")\n return
o\n}\n\npublic external
interface ConstraintSet\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n val o
= js("{}")\n return o\n}\n\npublic external interface Constraints : ConstraintSet {\n var advanced:
Array<ConstraintSet>?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints {\n val o = js("{}")\n o["advanced"] = advanced\n
return o\n}\n\n/* please, don't implement this interface!
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface

```

```

MediaStreamTrackState { companion object }
public inline val MediaStreamTrackState.Companion.LIVE:
MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()
public inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
"ended".asDynamic().unsafeCast<MediaStreamTrackState>()
/*
please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface
VideoFacingModeEnum { companion object }
public inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
"user".asDynamic().unsafeCast<VideoFacingModeEnum>()
public inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
"environment".asDynamic().unsafeCast<VideoFacingModeEnum>()
public inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
"left".asDynamic().unsafeCast<VideoFacingModeEnum>()
public inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
"right".asDynamic().unsafeCast<VideoFacingModeEnum>()
/*
please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface
VideoResizeModeEnum { companion object }
public inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get()
= "none".asDynamic().unsafeCast<VideoResizeModeEnum>()
public inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = "crop-and-
scale".asDynamic().unsafeCast<VideoResizeModeEnum>()
/*
please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface
MediaDeviceKind { companion object }
public inline val MediaDeviceKind.Companion.AUDIOINPUT:
MediaDeviceKind get() = "audioinput".asDynamic().unsafeCast<MediaDeviceKind>()
public inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
"audiooutput".asDynamic().unsafeCast<MediaDeviceKind>()
public inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
"videoinput".asDynamic().unsafeCast<MediaDeviceKind>()
/*
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file.
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See github.com/kotlin/dukat for
details
package org.w3c.dom.pointerevents
import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*
public external interface PointerEventInit : MouseEventInit {
var pointerId: Int? /* = 0 */
get() = definedExternally
set(value) = definedExternally
var width: Double? /* = 1.0 */
get() =
definedExternally
set(value) = definedExternally
var height: Double? /* = 1.0 */
get() =
definedExternally
set(value)
= definedExternally
var pressure: Float? /* = 0f */
get() = definedExternally
set(value) =
definedExternally
var tangentialPressure: Float? /* = 0f */
get() = definedExternally
set(value) =
definedExternally
var tiltX: Int? /* = 0 */
get() = definedExternally
set(value) = definedExternally
var tiltY: Int? /* = 0 */
get() = definedExternally
set(value) = definedExternally
var twist: Int? /* =
0 */
get() = definedExternally
set(value) = definedExternally
var pointerType: String? /* = "" */
get() = definedExternally
set(value) = definedExternally
var isPrimary: Boolean? /* = false */
get() = definedExternally
set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun
PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f,

```

```

tangentialPressure: Float? =
Of, 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 {
    val o = js("{}")
    o["pointerId"] = pointerId
    o["width"] = width
    o["height"] = height
    o["pressure"] = pressure
    o["tangentialPressure"] = tangentialPressure
    o["tiltX"] = tiltX
    o["tiltY"] = tiltY
    o["twist"] = twist
    o["pointerType"] = pointerType
    o["isPrimary"] = isPrimary
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

```

[\[PointerEvent\]\(https://developer.mozilla.org/en/docs/Web/API/PointerEvent\)](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin

 * public external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {

 open val pointerId: Int

 open val width: Double

 open val height: Double

 open val pressure: Float

 open val tangentialPressure: Float

 open val tiltX: Int

 open val tiltY: Int

 open val twist: Int

 open val pointerType: String

 open val isPrimary: Boolean

 companion object {

 val NONE: Short

 val CAPTURING_PHASE: Short

 val AT_TARGET: Short

 val BUBBLING_PHASE: Short

 }
 }

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 See github.com/kotlin/dukat for details

 * `org.w3c.dom.svg`

`org.khronos.webgl`

`org.w3c.css.masking`

`org.w3c.dom`

`org.w3c.dom.clipboard`

`org.w3c.dom.css`

`org.w3c.dom.events`

`org.w3c.dom.mediacapture`

`org.w3c.dom.parsing`

`org.w3c.dom.pointerevents`

`org.w3c.dom.url`

`org.w3c.fetch`

`org.w3c.files`

`org.w3c.notifications`

`org.w3c.performance`

`org.w3c.workers`

`org.w3c.xhr`

 * Exposes the JavaScript

[\[SVGELEMENT\]\(https://developer.mozilla.org/en/docs/Web/API/SVGELEMENT\)](https://developer.mozilla.org/en/docs/Web/API/SVGELEMENT) to Kotlin

 * public external abstract class SVGELEMENT : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGELEMENTInstance {

 open val

```

dataset: DOMStringMap
open val ownerSVGELEMENT: SVGSVGELEMENT?
open val viewportElement: SVGELEMENT?
open var tabIndex: Int
fun focus()
fun blur()
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\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) = 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@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    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:

```


[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 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@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\n\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`

[SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n
`*\npublic external interface SVGTTests {\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: SVGSVGElement?): NodeList\n fun getEnclosureList(rect:`


```

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 [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}

```


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
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/**\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n
*\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\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGTransformList.get(index: Int):
SVGTransform? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }\n\n\n/**\n * Exposes
the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n *\n\npublic external abstract class SVGAnimatedTransformList {\n open val baseVal:
SVGTransformList\n open val animVal: SVGTransformList\n }n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n
*\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/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio)
Ratio) to Kotlin\n *\n\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n open val baseVal:
SVGPreserveAspectRatio\n open val animVal: SVGPreserveAspectRatio\n }n}\n\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n *\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    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\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

```

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external abstract class SVGLineElement : SVGGeometryElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength
    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
    }
}
\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 {
    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
    }
}
\n\n/**
 * Exposes the JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin
 */
\n\npublic external interface SVGAnimatedPoints {
    val points: SVGPointList
    val animatedPoints: SVGPointList
}
\n\npublic external abstract class SVGPointList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: DOMPoint): DOMPoint
    fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint
    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint
    fun removeItem(index: Int): DOMPoint
    fun appendItem(newItem: DOMPoint): DOMPoint
    fun getItem(index: Int): DOMPoint
}
\n\n@kotlin.internal.InlineOnly
\n\npublic inline operator fun SVGPointList.get(index: Int): DOMPoint =
asDynamic()[index]
\n\n@kotlin.internal.InlineOnly
\n\npublic inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) {
asDynamic()[index] = newItem
}
\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 {
    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
    }
}
\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 {

```

```

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 [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin
 * public external abstract class SVGTextContentElement : SVGGraphicsElement {
    open val textLength: SVGAnimatedLength
    open val lengthAdjust: SVGAnimatedEnumeration
    fun getNumberOfChars(): Int
    fun getComputedTextLength(): Float
    fun getSubStringLength(charnum: Int, nchars: Int): Float
    fun getStartPositionOfChar(charnum: Int): DOMPoint
    fun getEndPositionOfChar(charnum: Int): DOMPoint
    fun getExtentOfChar(charnum: Int): DOMRect
    fun getRotationOfChar(charnum: Int): Float
    fun getCharNumAtPosition(point: DOMPoint): Int
    fun selectSubString(charnum: Int, nchars: Int)
}

companion object {
    val LENGTHADJUST_UNKNOWN: Short
    val LENGTHADJUST_SPACING: Short
    val LENGTHADJUST_SPACINGANDGLYPHS: Short
    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 [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin
 * public external abstract class SVGTextPositioningElement : SVGTextContentElement {
    open val x: SVGAnimatedLengthList
    open val y: SVGAnimatedLengthList
    open val dx: SVGAnimatedLengthList
    open val dy: SVGAnimatedLengthList
    open val rotate: SVGAnimatedNumberList
}

companion object {
    val LENGTHADJUST_UNKNOWN: Short
    val LENGTHADJUST_SPACING: Short
    val LENGTHADJUST_SPACINGANDGLYPHS: Short
    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 [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin
 * public external abstract class SVGTextElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short

```

```

    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 * \n public
external abstract
class SVGTSpanElement : 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
[SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin \n
* \n public 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 * \n public
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

```

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var crossOrigin: 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 [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to
 * Kotlin
 */
public external abstract class SVGForeignObjectElement : SVGGraphicsElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    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
}

public external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {
    open val refX: SVGAnimatedLength
    open val refY: SVGAnimatedLength
    open val markerUnits: SVGAnimatedEnumeration
    open val markerWidth: SVGAnimatedLength
    open val markerHeight: SVGAnimatedLength
    open val orientType: SVGAnimatedEnumeration
    open val orientAngle: SVGAnimatedAngle
    open var orient: String
    fun setOrientToAuto()
    fun setOrientToAngle(angle: SVGAngle)
    companion object {
        val SVG_MARKERUNITS_UNKNOWN: Short
        val SVG_MARKERUNITS_USERSPACEONUSE: Short
        val SVG_MARKERUNITS_STROKEWIDTH: Short
        val SVG_MARKER_ORIENT_UNKNOWN: Short
        val SVG_MARKER_ORIENT_AUTO: Short
        val SVG_MARKER_ORIENT_ANGLE: Short
        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 [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to
 * Kotlin
 */
public external abstract class SVGSolidcolorElement : SVGElement {
    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
    }
}

```

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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 */\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
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:

```



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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
    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
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/**\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

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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 [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 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

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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
[SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\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
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n *\npublic external
abstract class SVGElement : SVGGraphicsElement, SVGURIReference {\n    open val target:
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\n/**\n * Copyright 2010-2019

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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.files\n\nimport
kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n */\n\npublic external open class
Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
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    /* = \"\" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\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 */\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@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 */\n\npublic
external abstract class FileList : ItemArrayLike<File> {\n    override fun item(index: Int):
File?\n}\n\n@kotlin.internal.InlineOnly\npublic 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 Kotlin\n */\n\npublic external open class
FileReader : EventTarget {\n    open val readyState: Short\n    open val result: dynamic\n    open val error:
dynamic\n    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: Short\n        val
LOADING: Short\n        val DONE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n */\n\npublic external
open class FileReaderSync {\n    fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n    fun readAsBinaryString(blob:
Blob): String\n    fun readAsText(blob: Blob, label: String = definedExternally): String\n    fun
readAsDataURL(blob: Blob): String\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\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript

```

```

[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin
*/\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: String\n  open val dir:
NotificationDirection\n  open val lang: String\n  open val body: String\n  open val tag: String\n  open val
image: String\n  open val icon: String\n  open val badge: String\n  open val sound: String\n  open val vibrate:
Array<out
Int>\n  open val timestamp: Number\n  open val renotify: Boolean\n  open val silent: Boolean\n  open val
noscreen: Boolean\n  open val requireInteraction: Boolean\n  open val sticky: Boolean\n  open val data: Any?\n
open val actions: Array<out NotificationAction>\n  fun close()\n  companion object {\n    val permission:
NotificationPermission\n    val maxActions: Int\n    fun requestPermission(deprecatedCallback:
(NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\n  }\n}\n\npublic
external interface NotificationOptions {\n  var dir: NotificationDirection? /* = NotificationDirection.AUTO */\n
get() = definedExternally\n  set(value) = definedExternally\n  var lang: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var body: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var tag: String? /* = \"\"
*/\n  get() = definedExternally\n  set(value) = definedExternally\n  var image: String?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var icon: String?\n  get() = definedExternally\n
set(value) = definedExternally\n  var badge: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var sound: String?\n  get() = definedExternally\n  set(value) = definedExternally\n
var vibrate: dynamic\n  get() = definedExternally\n  set(value) = definedExternally\n  var timestamp:
Number?\n  get() = definedExternally\n  set(value) = definedExternally\n  var renotify: Boolean? /* = false
*/\n  get() = definedExternally\n  set(value) = definedExternally\n  var silent: Boolean? /* = false */\n
get() = definedExternally\n  set(value) = definedExternally\n  var noscreen: Boolean? /* = false */\n  get() =
definedExternally\n  set(value)
= definedExternally\n  var requireInteraction: Boolean? /* = false */\n  get() = definedExternally\n
set(value) = definedExternally\n  var sticky: Boolean? /* = false */\n  get() = definedExternally\n  set(value)
= definedExternally\n  var data: Any? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var actions: Array<NotificationAction>? /* = arrayOf() */\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationOptions(dir:
NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\",
image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined,
vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? =
false, noscreen: Boolean? = false, requireInteraction: Boolean? =
false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()):
NotificationOptions {\n  val o = js(\"({})\")\n  o[\"dir\"] = dir\n  o[\"lang\"] = lang\n  o[\"body\"] = body\n
o[\"tag\"] = tag\n  o[\"image\"] = image\n  o[\"icon\"] = icon\n  o[\"badge\"] = badge\n  o[\"sound\"] = sound\n
o[\"vibrate\"] = vibrate\n  o[\"timestamp\"] = timestamp\n  o[\"renotify\"] = renotify\n  o[\"silent\"] = silent\n
o[\"noscreen\"] = noscreen\n  o[\"requireInteraction\"] = requireInteraction\n  o[\"sticky\"] = sticky\n  o[\"data\"]
= data\n  o[\"actions\"] = actions\n  return o\n}\n\npublic external interface NotificationAction {\n  var action:
String?\n  get() = definedExternally\n  set(value) = definedExternally\n  var title: String?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var icon: String?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\n  val
o = js(\"({})\")\n  o[\"action\"] = action\n  o[\"title\"] = title\n  o[\"icon\"] = icon\n  return o\n}\n\npublic
external interface GetNotificationOptions {\n  var tag: String? /* = \"\" */\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag:
String? = \"\"): GetNotificationOptions {\n  val o = js(\"({})\")\n  o[\"tag\"] = tag\n  return o\n}\n\n/**\n *
Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to

```

```

Kotlin\n *\/\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n  open val notification: Notification\n  open val action: String\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 NotificationEventInit : ExtendableEventInit {\n  var notification: Notification?\n
get() = definedExternally\n  set(value) = definedExternally\n  var action: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
NotificationEventInit(notification: Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): NotificationEventInit {\n  val o = js(\"({})\")\n  o[\"notification\"]
= notification\n  o[\"action\"] = action\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\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
NotificationPermission
{\n  companion object\n}\n\npublic inline val NotificationPermission.Companion.DEFAULT:
NotificationPermission get() = \"default\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
\"denied\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.GRANTED: NotificationPermission get() =
\"granted\".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface!
*/\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
NotificationDirection {\n  companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO:
NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
\"ltr\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.RTL:
NotificationDirection get() = \"rtl\".asDynamic().unsafeCast<NotificationDirection>()\", /*\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// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.xr.*\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

```

```

*\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\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@kotlin.internal.InlineOnly\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 *\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  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
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@kotlin.internal.InlineOnly\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@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  public external interface
ExtendableEventInit : EventInit\n\n  @kotlin.internal.InlineOnly\n  public 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   */\n  public 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  public external interface ForeignFetchOptions {\n  var
scopes: Array<String>?\n  get() = definedExternally\n  set(value) = definedExternally\n  var origins:
Array<String>?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n  @kotlin.internal.InlineOnly\n  public 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   */\n  public 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 {\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 FetchEventInit : ExtendableEventInit {\n  var request: Request?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var clientId: String? /* = null */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var isReload: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n  @kotlin.internal.InlineOnly\n  public inline fun
FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\n  val o = js("{}")\n
o["request"] = request\n  o["clientId"] = clientId\n  o["isReload"] = isReload\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n  public external open class
ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n  open val request:
Request\n  open val origin: String\n  fun respondWith(r: Promise<ForeignFetchResponse>)\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 ForeignFetchEventInit : ExtendableEventInit {\n
var request: Request?\n  get() = definedExternally\n  set(value) = definedExternally\n  var origin: String? /*
= \"null\" */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n  @kotlin.internal.InlineOnly\n  public inline fun ForeignFetchEventInit(request: Request?,
origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):

```


ForeignFetchEventInit

```
{\n  val o = js("{}")\n  o["request"] = request\n  o["origin"] = origin\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\npublic external interface ForeignFetchResponse {\n  var response: Response?\n  get() = definedExternally\n  set(value) = definedExternally\n  var origin: String?\n  get() = definedExternally\n  set(value) = definedExternally\n  var headers: Array<String>?\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n  val o = js("{}")\n  o["response"] = response\n  o["origin"] = origin\n  o["headers"] = headers\n  return o\n}\n\n/**\n * Exposes the JavaScript
```

[ExtendableMessageEvent](<https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent>)

```
to Kotlin\n\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {\n  open val data: Any?\n  open val origin: String\n  open val lastEventId: String\n  open val source: UnionClientOrMessagePortOrServiceWorker?\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\npublic external interface ExtendableMessageEventInit : ExtendableEventInit {\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: UnionClientOrMessagePortOrServiceWorker?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ports: Array<MessagePort>?\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic 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 {\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
```

[Cache](<https://developer.mozilla.org/en/docs/Web/API/Cache>) to Kotlin\n\npublic external abstract class Cache {\n fun match(request:

```
dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n  fun 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@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}
```


org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the JavaScript

[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin\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 *\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 * Exposes the JavaScript

[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\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 *\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\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@kotlin.internal.InlineOnly\npublic inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\n val o = js("{}")\n o["lengthComputable"] = lengthComputable\n o["loaded"] = loaded\n o["total"] = total\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@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface

XMLHttpRequestResponseType {\n companion object\n}\n\npublic inline val

XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =

\"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val

XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =

\"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val

XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =

```

`blob`.asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
`document`.asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType
get() = `json`.asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
`text`.asDynamic().unsafeCast<XMLHttpRequestResponseType>()","/>\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\n\nimport kotlin.annotation.AnnotationRetention.SOURCE\n\nimport
kotlin.annotation.AnnotationTarget.*\n\nimport kotlin.internal.RequireKotlin\n\nimport
kotlin.internal.RequireKotlinVersionKind\n\nimport kotlin.reflect.KClass\n\n\n/**\n * Signals that the annotated
annotation class is a marker of an experimental API.\n * Any declaration annotated with that marker is
considered an experimental declaration\n * and its call sites should accept the experimental aspect of it
either by using [UseExperimental],\n * or by being annotated with that marker themselves, effectively causing
further propagation of that experimental aspect.\n * This class is deprecated in favor of a more general approach
provided by [RequiresOptIn]/[OptIn].\n
*/\n\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.2")\n@RequireKotlin("1.2.50",
versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated("Please use RequiresOptIn
instead.")\n\npublic annotation class Experimental(val level: Level = Level.ERROR) {\n    /**\n     * Severity of the
diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental
aspect\n     * of that API either by using [UseExperimental] 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 experimental API. */\n        WARNING,\n        /** Specifies
that an error should be reported on incorrect usages of this experimental API. */\n        ERROR,\n    }\n}\n\n/**\n *
Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.\n * If
a declaration is annotated with [UseExperimental], its usages are not required to opt-in to that experimental
API.\n * This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n
*/\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("1.2")\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated("Please use OptIn instead.",
ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))\n\npublic annotation class UseExperimental(\n    vararg val
markerClass: KClass<out Annotation>)\n\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n\n@Retention(BINARY)\n\ninternal annotation class WasExperimental(\n    vararg val markerClass:
KClass<out Annotation>)\n\n", "package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\n\n/**\n * This
annotation marks the standard library API that is considered experimental and is not subject to the\n * [general
compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the
standard library:\n * the behavior of such API may be changed or the API may be removed completely in any
further release.\n * Beware using the annotated API especially if you're developing a library, since your library
might become binary incompatible\n * with the future versions of the standard library.\n * Any usage of a
declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\n * annotating that usage with the
[OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument
`-Xopt-in=kotlin.ExperimentalStdlibApi`. \n */\n\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.ERROR)\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\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@MustBeDocumented\n@ExperimentalStdlibApi\n@SinceKotlin("1.3") // TODO: Remove experimental status from itself and advance SinceKotlin to 1.4\npublic annotation class ExperimentalStdlibApi\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.AnnotationTarget.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.\n *\n * When this annotation is placed on a generic function parameter of a function,\n * it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.\n *\n * The calls that affect inference are either members of the receiver type of an annotated function parameter or\n * extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.\n *\n * Example: we declare\n * ```\n * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().> -> Unit): Sequence<T>\n * ```\n * and use it like\n * ```\n * val result = sequence { yield("result") }\n * ```\n * Here the type argument of the resulting sequence is inferred to `String` from\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n */\n\n@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@ExperimentalTypeInference\npublic annotation class BuilderInference\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.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n *\n * Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.ExperimentalMultiplatform`.\n *\n * @Suppress("DEPRECATION")\n * @Experimental\n * @RequiresOptIn\n * @MustBeDocumented\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 * @Retention(AnnotationRetention.BINARY)\n * @RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n */\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 *\n * This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as `optional`.\n *\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 *\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.\n */\n\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\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 *\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' 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 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@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 2010-2018 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\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 on 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 override fun iterator(): Iterator<E>\n\n    override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }\n\n    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean = elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\n\n    override fun isEmpty(): Boolean = size == 0\n\n    override fun toString(): String = joinToString(", ", "[", "]" )\n\n    if (it == this) "(this Collection)" else it.toString()\n } }\n\n/**\n * Returns new array of type `Array<Any?>` with the elements of this collection.\n */\n@JsName("toArray")\nprotected open fun toArray(): Array<Any?> = copyToArrayImpl(this)\n\n/**\n * Fills the provided [array] or creates new array of the same type and fills it with the elements of this collection.\n */\nprotected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)\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\nprivate enum class State {\n    Ready,\n    NotReady,\n    Done,\n    Failed\n}\n\n/**\n * A base class to simplify implementing iterators so that implementations only have to implement [computeNext] to implement the iterator, calling [done] when the iteration is complete.\n */\npublic abstract class AbstractIterator<T> : Iterator<T> {\n    private var state = State.NotReady\n    private var nextValue: T? = null\n\n    override fun hasNext(): Boolean {\n        require(state != State.Failed)\n        return when (state) {\n            State.Done -> false\n            State.Ready -> true\n            else -> tryToComputeNext()\n        }\n    }\n\n    override fun next(): T {\n        if (!hasNext()) throw NoSuchElementException()\n        state = State.NotReady\n        @Suppress("UNCHECKED_CAST")\n        return nextValue as T\n    }\n\n    private fun


```

```

tryToComputeNext(): Boolean {
    state = State.Failed
    computeNext()
    return state ==
State.Ready
}

/**
 * Computes the next item in the iterator.
 * This callback method should
call one of these two methods:
 * [setNext] with the next value of the iteration
 * [done] to indicate
there are no more elements
 * Failure to call either method will result in the iteration terminating with a
failed state
 */
abstract protected fun computeNext(): Unit

/**
 * Sets the next value in the iteration,
called from the [computeNext] function
 */
protected fun setNext(value: T): Unit {
    nextValue =
value
    state = State.Ready
}

/**
 * Sets the state to done so that the iteration terminates.
 */
protected fun done() {
    state = State.Done
}

}

"/**
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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.
 */
"/**
 * Based on GWT AbstractList
 * Copyright 2007 Google Inc.
 */
package kotlin.collections

/**
 * Provides a skeletal implementation of the read-only [List] interface.
 * This class is intended to help
implementing read-only lists so it doesn't support concurrent modification tracking.
 * @param E the type of
elements contained in the list. The list is covariant on its element type.
 */
@SinceKotlin("1.1")
public abstract
class AbstractList<out E> protected constructor() : AbstractCollection<E>(), List<E> {
    abstract override val
size: Int
    abstract override fun get(index: Int): E
    override fun iterator(): Iterator<E> = IteratorImpl()
    override fun indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }
    override fun
lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element
}

    override fun listIterator(): ListIterator<E> = ListIteratorImpl(0)
    override fun listIterator(index: Int):
ListIterator<E> = ListIteratorImpl(index)
    override fun subList(fromIndex: Int, toIndex: Int): List<E> =
SubList(this, fromIndex, toIndex)
    private class SubList<out E>(private val list: AbstractList<E>, private val
fromIndex: Int, toIndex: Int) : AbstractList<E>(), RandomAccess {
        private var _size: Int = 0
        init {
            checkRangeIndexes(fromIndex, toIndex, list.size)
            this._size = toIndex - fromIndex
        }
        override fun get(index: Int): E {
            checkElementIndex(index, _size)
            return list[fromIndex +
index]
        }
        override val size: Int get() = _size
    }

    /**
 * Compares this list with other list
instance with the ordered structural equality.
 * @return true, if [other] instance is a [List] of the same
size, which contains the same elements
in the same order.
 */
    override fun equals(other: Any?): Boolean {
        if (other === this) return true
        if (other !is List<*>) return false
        return orderedEquals(this, other)
    }

    /**
 * Returns the hash
code value for this list.
 */
    override fun hashCode(): Int = orderedHashCode(this)

    private open inner
class IteratorImpl : Iterator<E> {
        /**
 * the index of the item that will be returned on the next call to [next]`
 */
        protected var index = 0
        override fun hasNext(): Boolean = index < size
        override fun next():
E {
            if (!hasNext()) throw NoSuchElementException()
            return get(index++)
        }
    }

    /**
 * Implementation of [ListIterator] for abstract lists.
 */
    private open inner class
ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {
        init {
            checkPositionIndex(index,
this@AbstractList.size)
            this.index = index
        }
        override fun hasPrevious(): Boolean = index > 0
        override fun
nextIndex(): Int = index
        override fun previous(): E {
            if (!hasPrevious()) throw
NoSuchElementException()
            return get(--index)
        }
        override fun previousIndex(): Int = index -
1
    }

    internal companion object {
        internal fun checkElementIndex(index: Int, size: Int) {
            if
(index < 0 || index >= size) {
                throw IndexOutOfBoundsException("index: $index, size: $size")
            }
        }
        internal fun checkPositionIndex(index: Int, size: Int) {
            if (index < 0 || index > size) {
                throw IndexOutOfBoundsException("index: $index, size: $size")
            }
        }
        internal fun
checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {
            if (fromIndex < 0 || toIndex > size) {
                throw IndexOutOfBoundsException("fromIndex:
$fromIndex, toIndex: $toIndex, size: $size")
            }
            if (fromIndex > toIndex) {
                throw
IllegalArgumentException("fromIndex: $fromIndex > toIndex: $toIndex")
            }
        }
        internal fun
checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {
            if (startIndex < 0 || endIndex > size) {

```

```

        throw IndexOutOfBoundsException("startIndex: $startIndex, endIndex: $endIndex, size: $size")\n    }\n
        if (startIndex > endIndex) {\n            throw IllegalArgumentException("startIndex: $startIndex > endIndex:\n
        endIndex")\n        }\n    }\n\n    internal fun orderedHashCode(c: Collection<*>): Int {\n        var\n
        hashCode = 1\n        for (e in c) {\n            hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n        }\n
    }\n\n    return hashCode\n    }\n\n    internal fun orderedEquals(c: Collection<*>, other:\n
    Collection<*>): Boolean {\n        if (c.size != other.size) return false\n        val otherIterator =\n
        other.iterator()\n        for (elem in c) {\n            val elemOther = otherIterator.next()\n            if (elem !=\n
            elemOther) {\n                return false\n            }\n            return true\n        }\n    }\n\n    /**\n
    Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is\n
    governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n    /**\n
    Based on GWT\n    AbstractMap\n * Copyright 2007 Google Inc.\n */\n\n    package kotlin.collections\n\n    /**\n
    * Provides a skeletal\n    implementation of the read-only [Map] interface.\n * The implementor is required to implement [entries]\n
    property, which should return read-only set of map entries.\n * \n * @param K the type of map keys. The map is\n
    invariant on its key type.\n * @param V the type of map values. The\n
    map is covariant on its value type.\n */\n\n    @SinceKotlin("1.1")\n    public abstract class AbstractMap<K, out V>\n
    protected constructor() : Map<K, V> {\n\n        override fun containsKey(key: K): Boolean {\n            return\n
            implFindEntry(key) != null\n        }\n\n        override fun containsValue(value: @UnsafeVariance V): Boolean =\n
            entries.any { it.value == value }\n\n        internal fun containsEntry(entry: Map.Entry<*, *>): Boolean {\n            // since\n
            entry comes from @UnsafeVariance parameters it can be virtually anything\n            if (entry !is Map.Entry<*, *>)\n
            return false\n            val key = entry.key\n            val value = entry.value\n            val ourValue = get(key)\n            if (value\n
            != ourValue) {\n                return false\n            }\n            // Perhaps it was null and we don't contain the key?\n            if\n
            (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\n
        equality.\n * \n * @return true, if [other] instance is a [Map] of the same size, all entries of which are contained\n
        in the [entries] set of this map.\n */\n        override fun equals(other: Any?): Boolean {\n            if (other === this)\n
            return true\n            if (other !is Map<*, *>) return false\n            if (size != other.size) return false\n            return\n
            other.entries.all { containsEntry(it) }\n        }\n\n        override operator fun get(key: K): V? =\n
            implFindEntry(key)?.value\n\n        /**\n
        * Returns the hash code value for this map.\n * \n * It is the same as\n
        the hashCode of [entries] set.\n */\n        override fun hashCode(): Int = entries.hashCode()\n\n        override fun\n
        isEmpty(): Boolean = size == 0\n        override val size: Int get() = entries.size\n\n        /**\n
        * Returns a read-only\n
        [Set] of all keys in this map.\n * \n * Accessing this property first time creates a keys view from [entries].\n * \n
        * All subsequent accesses just return the created\n
        instance.\n */\n        override val keys: Set<K>\n            get() {\n                if (_keys == null) {\n                    _keys = object\n
                    : AbstractSet<K>() {\n                        override operator fun contains(element: K): Boolean = containsKey(element)\n
                    }\n\n                    override operator fun iterator(): Iterator<K> {\n                        val entryIterator = entries.iterator()\n
                    }\n\n                    return object : Iterator<K> {\n                        override fun hasNext(): Boolean = entryIterator.hasNext()\n
                    }\n\n                    override fun next(): K = entryIterator.next().key\n                }\n            }\n\n        override val size: Int get() = this@AbstractMap.size\n\n        @kotlin.jvm.Volatile\n        private var _keys: Set<K>? = null\n\n        override fun toString(): String =\n
            entries.joinToString(", ", "{", "}") { toString(it) }\n\n        private fun toString(entry:\n
            Map.Entry<K, V>): String = toString(entry.key) + "=" + toString(entry.value)\n\n        private fun toString(o: Any?):\n
            String = if (o === this) \"(this Map)\" else o.toString()\n\n        /**\n
        * Returns a read-only [Collection] of all values\n
        in this map.\n * \n * Accessing this property first time creates a values view from [entries].\n * \n
        * All\n
        subsequent accesses just return the created instance.\n */\n        override val values: Collection<V>\n            get() {\n                if (_values == null) {\n                    _values = object : AbstractCollection<V>() {\n                        override operator\n
                        fun contains(element: @UnsafeVariance V): Boolean = containsValue(element)\n                    }\n\n                    override operator\n
                    fun iterator(): Iterator<V> {\n                        val entryIterator = entries.iterator()\n                    }\n\n                    return object :\n
                    Iterator<V> {\n                        override fun hasNext(): Boolean = entryIterator.hasNext()\n
                    }\n                }\n            }\n

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        override fun next(): V = entryIterator.next().value\n                }\n                }\n                override val
size: Int get() = this@AbstractMap.size\n                }\n                }\n                return _values!!\n                }\n
@kotlin.jvm.Volatile\n    private var _values: Collection<V>? = null\n    private fun implFindEntry(key: K):
Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n    internal companion object {\n        internal fun
entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\n
internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { \"$key=$value\" }\n        internal fun
entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n            if (other !is Map.Entry<*, *>) return false\n
            return e.key == other.key && e.value == other.value\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
*/\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Set] interface.\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 on its element type.\n
*\n * @SinceKotlin(\"1.1\")\npublic abstract class AbstractSet<out E> protected constructor() :
AbstractCollection<E>(), Set<E> {\n    /**\n     * Compares this set with other 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 setEquals(this, other)\n     }\n
}\n    /**\n     * Returns the hash code value for this set.\n     *\n     * override fun hashCode(): Int =
unorderedHashCode(this)\n    internal companion object {\n        internal fun unorderedHashCode(c:
Collection<*>): Int {\n            var hashCode = 0\n            for (element in c) {\n                hashCode +=
(element?.hashCode() ?: 0)\n            }\n            return hashCode\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\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
*/\npackage kotlin.collections\n\nimport
kotlin.native.concurrent.SharedImmutable\n\n@SharedImmutable\nprivate val emptyElementData =
emptyArray<Any?>()\nprivate const val maxArraySize =
Int.MAX_VALUE - 8\nprivate const val defaultMinCapacity = 10\n\n/**\n * Resizable-array implementation of
the deque data structure.\n * The name deque is short for \"double ended queue\" and is usually pronounced
\"deck\".\n * The collection provide methods for convenient access to the both ends.\n * It also implements
[MutableList] interface and supports efficient get/set operations by index.\n
*\n * @SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic class ArrayDeque<E> : AbstractMutableList<E> {\n
private var head: Int = 0\n    private var elementData: Array<Any?>\n    override var size: Int = 0\n    private
set\n    /**\n     * Constructs an empty deque with specified [initialCapacity], or throws
[IllegalArgumentException] if [initialCapacity] is negative.\n     *\n     * public constructor(initialCapacity: Int) {\n
        elementData = when {\n            initialCapacity == 0 -> emptyElementData\n            initialCapacity > 0 ->
arrayOfNulls(initialCapacity)\n        }\n        else -> throw IllegalArgumentException(\"Illegal Capacity: $initialCapacity\")\n    }\n}\n\n/**\n *
Constructs an empty deque.\n     *\n     * public constructor() {\n        elementData = emptyElementData\n    }\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/**\n * Ensures that the capacity of this deque is at least equal to the specified [minCapacity].\n     *\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

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is too big.\n) // overflow\n    if (minCapacity <= elementData.size) return\n        if (elementData ===
emptyElementData) {\n        elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n
    return\n    }\n\n    val newCapacity = newCapacity(elementData.size, minCapacity)\n
copyElements(newCapacity)\n }\n\n // made internal for testing\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     * 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\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\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\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\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\n        if (index == size) {\n            addLast(element)\n            return\n        } else if (index == 0) {\n
addFirst(element)\n            return\n        }\n\n        ensureCapacity(size + 1)\n\n        // Elements in circular array lay

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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    private 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    public 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    public 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 {\n                    // 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
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elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n        } else {\n
        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        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        }\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        public override fun get(index: Int): E {\n
AbstractList.checkElementIndex(index, size)\n        return internalGet(internalIndex(index))\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        public override fun contains(element:
E): Boolean = indexOf(element) != -1\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        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        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        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

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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        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 (isEmpty()) {\n
elementData.fill(null, head, elementData.size)\n        elementData.fill(null, 0, tail)\n    }\n    head = 0\n
size =
0\n    }\n\n // For testing only\n    internal fun internalStructure(structure: (head: Int, elements: Array<Any?>) ->
Unit) {\n        val tail = internalIndex(size)\n        if (isEmpty()) {\n            structure(head, emptyArray())\n
return\n        }\n        val elements = arrayOfNulls<Any?>(size)\n        if (head < tail) {\n
elementData.copyInto(elements, startIndex = head, endIndex = tail)\n            structure(head, elements)\n        } else
{\n            elementData.copyInto(elements, startIndex = head)\n            elementData.copyInto(elements,
elementData.size - head, startIndex = 0, endIndex = tail)\n            structure(head - elementData.size, elements)\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(\"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>(sumBy { 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 =
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\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

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the array is empty.\n *\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.isEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n    if (isEmpty())\n        defaultValue() else\n        this\n\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal fun <T>\n    Array<out\n        T>.contentDeepEqualsImpl(other: Array<out T>): Boolean {\n    if (this === other) return true\n    if (this.size !=\n        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            v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n            else -> if (v1 != v2) return false\n        }\n    }\n    return true\n}\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    val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5)\n    * 5 + 2 // in order not to overflow Int.MAX_VALUE\n    return buildString(length) {\n        contentDeepToStringInternal(this, mutableListOf())\n    }\n}\n\n\n@UseExperimental(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 2010-2018 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\n\nfile.\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

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index the index of the value in the collection or sequence.\n */\npublic data class IndexedValue<out T>(public val
index: Int, public val value: T)\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("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") (getOrNull(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") (getOrNull(property.name) as
V1)\n\n@Deprecated("Use getValue() with two type parameters instead", level =
DeprecationLevel.ERROR)\n\n@kotlin.jvm.JvmName("getVarContravariant")\n\n@kotlin.internal.LowPriorityInOver
loadResolution\n\n@kotlin.internal.InlineOnly\npublic inline fun <V> MutableMap<in String, in
V>.getValue(thisRef: Any?, property: KProperty<*>): V =\n    @Suppress("UNCHECKED_CAST")
(getOrNull(property.name) as V)\n\n/**\n * Stores the value of 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 */\n\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 * \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\n@kotlin.jvm.JvmName("getOrNullOrNullable")\n\n@PublishedApi\ninternal fun <K,
V> Map<K, V>.getOrNullDefault(key: K): V {\n    if (this is MapWithDefault)\n        return
this.getOrNullDefault(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 * \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 * \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\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].

* This implicit default value is used when the original map doesn't contain a value for the key specified and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.

* When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.

```

@kotlin.jvm.JvmName("withDefaultMutable")
public fun <K, V>
MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =
    when (this) {
        is MutableMapWithDefault -> this.map.withDefault(defaultValue)
        else -> MutableMapWithDefaultImpl(this,
            defaultValue)
    }

private interface MapWithDefault<K, out V> : Map<K, V> {
    public val map: Map<K, V>
    public fun getOrImplicitDefault(key: K): V
}

private interface MutableMapWithDefault<K, V> :
MutableMap<K, V>,
MapWithDefault<K, V> {
    public override val map: MutableMap<K, V>
}

private class
MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
MapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun get(key: K): V? = map.get(key)
    override val keys: Set<K> get() = map.keys
    override val values: Collection<V> get() = map.values
    override val entries: Set<Map.Entry<K, V>> get() = map.entries
    override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })
}

private class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun get(key: K): V? = map.get(key)
    override val keys: MutableSet<K> get() = map.keys
    override val values: MutableCollection<V> get() = map.values
    override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries
    override fun put(key: K, value: V): V? = map.put(key, value)
    override fun remove(key: K): V? = map.remove(key)
    override fun putAll(from: Map<out K, V>) = map.putAll(from)
    override fun clear() = map.clear()
    override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })
}

"/
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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")
package kotlin.collections
import kotlin.random.Random

/*
 * Removes a single instance of the specified element from this collection, if it is present.
 * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.
 * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.
 */
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).remove(element)

/*
 * Removes all of this collection's elements that are also contained in the specified collection.
 * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.
 * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.
 */
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)

/*
 * Retains only the elements in this collection that are contained in the specified collection.
 * Allows to overcome type-safety restriction of `retainAll` that requires

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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 \n public 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 \n public 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 \n public 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 \n public 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 \n public
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 \n public 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 \n public 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 \n public 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 \n public 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 * \n public 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 * \n public 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 [MutableCollection]. \n * \n public 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 * \n public 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
* \n public fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean { \n val set =
elements.toHashSet() \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 * \n public fun <T>
MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean
{ \n return elements.isNotEmpty() && removeAll(elements.toHashSet()) \n } \n \n * \n * Retains only elements of
this [MutableCollection] that are contained in the given [elements] collection. \n * \n public 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 * \n public fun <T> MutableCollection<in
T>.retainAll(elements: Array<out T>): Boolean { \n if (elements.isNotEmpty()) \n return
retainAll(elements.toHashSet()) \n else \n return retainNothing() \n } \n \n * \n * Retains only elements of this

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[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.toHashSet()\n    if
(set.isNotEmpty())\n        return retainAll(set)\n    else\n
return retainNothing()\n}\n\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\n    val result =
isNotEmpty()\n    clear()\n    return result\n}\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/**\n * Returns a new list with the elements of this list randomly shuffled\n * using the specified
[random] instance as the source of randomness.\n *\n@SinceKotlin("1.3")\npublic fun <T>
Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\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("1.3")\n@ExperimentalStdlibApi\npublic
fun <T> MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n *
Removes all 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\n    var writeIndex:
Int = 0\n    for (readIndex in 0..lastIndex) {\n        val element = this[readIndex]\n        if (predicate(element) ==
predicateResultToRemove)\n            continue\n\n        if (writeIndex != readIndex)\n            this[writeIndex] =
element\n\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 *
Randomly shuffles elements in this mutable list using the specified [random] instance as the source of

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randomness.\n *\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.3")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex\n
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 * Copyright 2010-2018 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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage\n
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :\n
AbstractList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =\n
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :\n
AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =\n
delegate[reverseElementIndex(index)]\n\n    override fun clear() = delegate.clear()\n    override fun removeAt(index:\n
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n    override\n
fun set(index: Int, element: T): T = delegate.set(reverseElementIndex(index), element)\n    override fun add(index:\n
Int, element: T) {\n        delegate.add(reversePositionIndex(index), element)\n    }\n}\n\nprivate fun\n
List<*>.reverseElementIndex(index: Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw\n
IndexOutOfBoundsException("Element index $index must be in range [0..$lastIndex].")\n\nprivate fun\n
List<*>.reversePositionIndex(index: Int) =\n    if (index in 0..size) size - index else throw\n
IndexOutOfBoundsException("Position index $index must be in range [0..$size].")\n\n\n/**\n * Returns a\n
reversed read-only view of the original List.\n * All changes made in the original list will be reflected in the reversed\n
one.\n * @sample samples.collections.ReversedViews.asReversedList\n *\npublic fun <T> List<T>.asReversed():\n
List<T> = ReversedListReadOnly(this)\n\n\n/**\n * Returns a reversed mutable view of the original mutable List.\n * All\n
changes made in\n
the original list will be reflected in the reversed one and vice versa.\n * @sample\n
samples.collections.ReversedViews.asReversedMutableList\n
*\n@kotlin.jvm.JvmName("asReversedMutable")\n\npublic fun <T> MutableList<T>.asReversed():\n
MutableList<T> = ReversedList(this)\n\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming\n
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n
license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n@file:UseExperimental(\n
ExperimentalTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport\n
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n\n/**\n * Builds a\n
[Sequence] lazily yielding values one by one.\n *\n * @see kotlin.sequences.generateSequence\n *\n * @sample\n
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample\n
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@SinceKotlin("1.3")\n\npublic fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>(). ->\n
Unit): Sequence<T> = Sequence { iterator(block) }\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'sequence { }'\n
function instead.", ReplaceWith("sequence(builderAction)"), level =\n
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> buildSequence(@BuilderInference\n
noinline builderAction: suspend SequenceScope<T>(). -> Unit): Sequence<T> = Sequence { iterator(builderAction)\n
}\n\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n *\n * @sample\n
samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n
*\n@SinceKotlin("1.3")\n\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>(). ->\n
Unit): Iterator<T> {\n    val iterator = SequenceBuilderIterator<T>()\n    iterator.nextStep =\n
block.createCoroutineUnintercepted(receiver = iterator,\n
completion = iterator)\n    return iterator\n}\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'iterator { }' function\n
instead.", ReplaceWith("iterator(builderAction)"), level =\n
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\n\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\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@RestrictsSuspension\n@SinceKotlin("1.3")\npublic abstract class SequenceScope<in T> internal
constructor() {\n\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 * @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\n if (elements is Collection && elements.isEmpty()) return\n\n return
yieldAll(elements.iterator())\n\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 * @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\n\nprivate const
val State_ManyNotReady: State = 1\n\nprivate const val State_ManyReady: State = 2\n\nprivate const val State_Ready:
State = 3\n\nprivate const val State_Done: State = 4\n\nprivate const val State_Failed: State = 5\n\nprivate class
SequenceBuilderIterator<T> : SequenceScope<T>(),
Iterator<T>, Continuation<Unit> {\n\n private var state = State_NotReady\n\n private var nextValue: T? = null\n\n
private var nextIterator: Iterator<T>? = null\n\n private var nextStep: Continuation<Unit>? = null\n\n\n override fun
hasNext(): Boolean {\n\n while (true) {\n\n when (state) {\n\n State_NotReady -> {\n\n
State_ManyNotReady ->\n\n if (nextIterator!!.hasNext()) {\n\n state = State_ManyReady\n\n
return true\n\n } else {\n\n nextIterator = null\n\n }\n\n State_Done -> return false\n\n State_Ready, State_ManyReady -> return true\n\n else -> throw
exceptionalState()\n\n }\n\n state = State_Failed\n\n val step = nextStep!!\n\n nextStep = null\n\n
step.resume(Unit)\n\n }\n\n }\n\n\n override fun next(): T {\n\n when (state) {\n\n
State_NotReady, State_ManyNotReady -> return nextNotReady()\n\n State_ManyReady -> {\n\n
state = State_ManyNotReady\n\n return nextIterator!!.next()\n\n }\n\n State_Ready -> {\n\n
state = State_NotReady\n\n @Suppress("UNCHECKED_CAST")\n\n val result = nextValue as
T\n\n nextValue = null\n\n return result\n\n }\n\n else -> throw exceptionalState()\n\n }\n\n
}\n\n\n private fun nextNotReady(): T {\n\n if (!hasNext()) throw NoSuchElementException() else return
next()\n\n }\n\n\n private fun exceptionalState(): Throwable = when (state) {\n\n State_Done ->
NoSuchElementException()\n\n State_Failed -> IllegalStateException("Iterator has failed.")\n\n else ->
IllegalStateException("Unexpected state of the iterator: $state")\n\n }\n\n\n\n override suspend fun yield(value: T)
{\n\n nextValue = value\n\n state = State_Ready\n\n return suspendCoroutineUninterceptedOrReturn { c ->\n\n
nextStep = c\n\n COROUTINE_SUSPENDED\n\n }\n\n }\n\n\n override suspend fun yieldAll(iterator: Iterator<T>) {\n\n if
(!iterator.hasNext()) return\n\n nextIterator = iterator\n\n state = State_ManyReady\n\n return
suspendCoroutineUninterceptedOrReturn { c ->\n\n nextStep = c\n\n COROUTINE_SUSPENDED\n

```

```

}\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\n override val context:
CoroutineContext\n get() = EmptyCoroutineContext\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\ninternal
fun 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
zero.\"\n }\n}\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean,
reuseBuffer: Boolean): Sequence<List<T>> {\n checkWindowSizeStep(size, step)\n return Sequence {\n
windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n}\n\ninternal fun <T>
windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean):
Iterator<List<T>> {\n if (!iterator.hasNext()) return EmptyIterator\n return iterator<List<T>> {\n val
bufferInitialCapacity = size.coerceAtMost(1024)\n val gap = step - size\n if (gap >= 0) {\n var buffer
= ArrayList<T>(bufferInitialCapacity)\n var skip = 0\n
for (e in iterator) {\n if (skip > 0) { skip -= 1; continue }\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 }\n if (buffer.isNotEmpty()) {\n if
(partialWindows || buffer.size == size) yield(buffer)\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) { buffer = buffer.expanded(maxCapacity = size); continue
}\n\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\n buffer.removeFirst(step)\n
}\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\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 -
fromIndex\n }\n\n override fun get(index: Int): E {\n checkElementIndex(index, _size)\n\n return
list[fromIndex + index]\n }\n\n override val size: Int get() = _size\n}\n\n/**\n * Provides ring buffer
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>(), RandomAccess {\n init {\n require(filledSize >= 0) { \"ring buffer filled size should
not be negative but it is $filledSize\" }\n require(filledSize <= buffer.size) { \"ring buffer filled size: $filledSize
cannot be larger than the buffer size: ${buffer.size}\" }\n }\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\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\n fun isFull() = size == capacity\n\n override fun iterator():
Iterator<T> = object : AbstractIterator<T>() {\n private var count = size\n private var index = startIndex\n
\n override fun computeNext() {\n if (count == 0) {\n done()\n
}\n else {\n @Suppress(\"UNCHECKED_CAST\")\n setNext(buffer[index] as T)\n
index = index.forward(1)\n count--\n }\n }\n }\n\n @Suppress(\"UNCHECKED_CAST\")\n
override fun <T> toArray(array: Array<T>): Array<T> {\n val result: Array<T?> =\n if (array.size <
this.size) array.copyOf(this.size) else array as Array<T?>\n\n val size = this.size\n\n var widx = 0\n var
idx = startIndex\n\n while (widx < size && idx < capacity) {\n result[widx] = buffer[idx] as T\n
widx++\n idx++\n }\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
}

```

```

    }
}

/**
 * Creates a new ring buffer with the capacity equal to the minimum of [maxCapacity] and 1.5 *
 [capacity].
 * The returned ring buffer contains the same elements as this ring buffer.
 */
fun
expanded(maxCapacity: Int): RingBuffer<T> {
    val newCapacity = (capacity + (capacity shr 1) +
1).coerceAtMost(maxCapacity)
    val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity) else
toArray(arrayOfNulls(newCapacity))
    return RingBuffer(newBuffer, size)
}

/**
 * Add [element]
 to the buffer or fail with [IllegalStateException] if no free space available in the buffer
 */
fun add(element:
T) {
    if (isFull()) {
        throw IllegalStateException("ring buffer is full")
    }
    buffer[startIndex.forward(size)] = element
    size++
}

/**
 * Removes [n] first elements from the
buffer or fails with [IllegalArgumentException] if not enough elements in
the buffer to remove
 */
fun removeFirst(n: Int) {
    require(n >= 0) { "\"n shouldn't be negative but it is
$n\""}
    require(n <= size) { "\"n shouldn't be greater than the buffer size: n = $n, size = $size\""}
    if (n >
0) {
        val start = startIndex
        val end = start.forward(n)
        if (start > end) {
            buffer.fill(null, start, capacity)
            buffer.fill(null, 0, end)
        } else {
            buffer.fill(null, start,
end)
        }
        startIndex = end
        size -= n
    }
}

@Suppress("NOTHING_TO_INLINE")
private inline fun Int.forward(n: Int): Int = (this + n) %
capacity
}

/**
 * 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.
 */
package kotlin.collections
// UByteArray

```

```

=====
@ExperimentalUnsignedTypes
private fun partition(
    array: UByteArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot) i++
        while (array[j] > pivot) j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UByteArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}
// UShortArray

```

```

=====
@ExperimentalUnsignedTypes
private
fun partition(
    array: UShortArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot =
array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot) i++
        while (array[j] >
pivot) j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UShortArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}
// UIntArray

```

```

=====
@ExperimentalUnsignedTypes
private fun partition(
    array: UIntArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot
= array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot) i++
        while (array[j] >
pivot) j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UIntArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}
// ULongArray

```

```

=====
@ExperimentalUnsignedTypes
private fun partition(
    array: ULongArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot) i++
        while (array[j] >
pivot) j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] =
tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private 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 * @ExperimentalUnsignedTypes\n * internal fun sortArray(array: UByteArray) = quickSort(array, 0, array.size - 1)\n * @ExperimentalUnsignedTypes\n * internal fun sortArray(array: UShortArray) = quickSort(array, 0, array.size - 1)\n * @ExperimentalUnsignedTypes\n * internal fun sortArray(array: UIntArray) = quickSort(array, 0, array.size - 1)\n * @ExperimentalUnsignedTypes\n * internal fun sortArray(array: ULongArray) = quickSort(array, 0, array.size - 1),"/*\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.contracts\n * \n * import kotlin.internal.ContractsDsl\n * \n * import kotlin.internal.InlineOnly\n * \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 * @Suppress("DEPRECATION")\n * @Retention(AnnotationRetention.BINARY)\n * @SinceKotlin("1.3")\n * @Experimental\n * @RequiresOptIn\n * @MustBeDocumented\n * public 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 * @ContractsDsl\n * @ExperimentalContracts\n * @SinceKotlin("1.3")\n * public interface ContractBuilder {\n * \n * \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 * \n * \n * // @sample samples.contracts.returnsContract\n * @ContractsDsl public fun returns(): Returns\n * \n * \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 * \n * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n * \n * \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 * \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 * \n * \n * // @sample samples.contracts.returnsNotNullContract\n * @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n * \n * \n * \n * \n * Specifies that the function parameter [lambda] is invoked in place.\n * \n * This contract specifies that:\n * \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 * \n * 2. _(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\n * see the [InvocationKind] enum for possible values.\n * \n * \n * A function declaring the `callsInPlace` effect must be _inline_.\n * \n * \n * \n * // @sample samples.contracts.callsInPlaceAtMostOnceContract\n * \n * \n * @sample samples.contracts.callsInPlaceAtLeastOnceContract\n * \n * \n * @sample samples.contracts.callsInPlaceExactlyOnceContract\n * \n * \n * @sample samples.contracts.callsInPlaceUnknownContract\n * \n * \n * @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n * \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 * \n * \n * \n * @ContractsDsl\n * @ExperimentalContracts\n * @SinceKotlin("1.3")\n * public enum class InvocationKind {\n * \n * \n * \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\n@ContractsDsl\n\n@ExperimentalContracts\n\n@InlineOnly\n\n@
SinceKotlin("1.3")\n\n@Suppress("UNUSED_PARAMETER")\n\npublic inline fun contract(builder:
ContractBuilder.() -> Unit) { }\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.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*/\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*/\n*/ [ContinuationInterceptor] subtypes can be
extracted from the coroutine context using either [ContinuationInterceptor.Key]\n* or subtype key if it extends
[AbstractCoroutineContextKey].\n*/\n\n@SinceKotlin("1.3")\n\npublic interface ContinuationInterceptor :
CoroutineContext.Element {\n    /**\n    * The key that defines *the* context interceptor.\n    */\n    companion
object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n\n    /**\n    * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n    */\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    */\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    *
@param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n    */\n    */\n    public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n    /* do nothing by default
*/\n    }\n\n    public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? {\n    // getPolymorphicKey specialized for ContinuationInterceptor key\n
@OptIn(ExperimentalStdlibApi::class)\n    if (key is AbstractCoroutineContextKey<*, *>) {\n
@Suppress("UNCHECKED_CAST")\n    return if (key.isSubKey(this.key)) key.tryCast(this) as? E else

```



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null\n    }\n    @Suppress(\"UNCHECKED_CAST\")\n    return if (ContinuationInterceptor === key) this
as E else null\n    }\n\n    public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n
// minusPolymorphicKey specialized for ContinuationInterceptor key\n
@OptIn(ExperimentalStdlibApi::class)\n    if (key is AbstractCoroutineContextKey<*, *>) {\n        return if
(key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n    return if
(ContinuationInterceptor === key) EmptyCoroutineContext else this\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.coroutines\n\n/**\n *
Persistent context for the coroutine. It is an indexed set of [Element] instances.\n * An indexed set is a mix between
a set and a map.\n * Every element in this set has a unique [Key].\n */\n@SinceKotlin(\"1.3\")\npublic interface
CoroutineContext\n
{\n    /**\n     * Returns the element with the given [key] from this context or `null`.\n     */\n    public operator fun
<E : Element> get(key: Key<E>): E?\n\n    /**\n     * Accumulates entries of this context starting with [initial] value
and applying [operation]\n     * from left to right to current accumulator value and each element of this context.\n
*/\n    public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n    /**\n     * Returns a context containing
elements from this context and elements from other [context].\n     * The elements from this context with the same
key as in the other one are dropped.\n     */\n    public operator fun plus(context: CoroutineContext):
CoroutineContext =\n        if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n
        context.fold(this) { acc, element ->\n            val removed = acc.minusKey(element.key)\n            if
(removed === EmptyCoroutineContext) element
        else {\n            // make sure interceptor is always last in the context (and thus is fast to get when present)\n
            val interceptor = removed[ContinuationInterceptor]\n            if (interceptor == null)\n
                CombinedContext(removed, element) else {\n                val left =
                removed.minusKey(ContinuationInterceptor)\n                if (left === EmptyCoroutineContext)\n
                    CombinedContext(element, interceptor) else\n                    CombinedContext(CombinedContext(left, element),
interceptor)\n            }\n        }\n    }\n\n    /**\n     * Returns a context containing elements from this
context, but without an element with\n     * the specified [key].\n     */\n    public fun minusKey(key: Key<*>):
CoroutineContext\n\n    /**\n     * Key for the elements of [CoroutineContext]. [E] is a type of element with this
key.\n     */\n    public interface Key<E : Element>\n\n    /**\n     * An element of the [CoroutineContext].\n
An element of the coroutine context is a singleton context by itself.\n     */\n    public interface Element :
CoroutineContext {\n        /**\n         * A key of this coroutine context element.\n         */\n        public val key:
Key<*>\n\n        public override operator fun <E : Element> get(key: Key<E>): E? =\n
@Suppress(\"UNCHECKED_CAST\")\n            if (this.key == key) this as E else null\n\n        public override fun
<R> fold(initial: R, operation: (R, Element) -> R): R =\n            operation(initial, this)\n\n        public override fun
minusKey(key: Key<*>): CoroutineContext =\n            if (this.key == key) EmptyCoroutineContext else this\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\n\nimport kotlin.coroutines.CoroutineContext.Element\nimport
kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n
*/\n@SinceKotlin(\"1.3\")\npublic abstract class AbstractCoroutineContextElement(public override val key:
Key<*>) : Element\n\n/**\n * Base class for [CoroutineContext.Key] associated with polymorphic
[CoroutineContext.Element] implementation.\n * Polymorphic element implementation implies delegating its
[get][Element.get] and [minusKey][Element.minusKey]\n * to [getPolymorphicElement] and
[minusPolymorphicKey] respectively.\n * Polymorphic elements can be extracted from the coroutine context
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 :

```

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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\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\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\n /**\n * An empty coroutine context.\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\n //----- internal impl -----
\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
when {\n             newLeft === left -> this\n             newLeft === EmptyCoroutineContext -> element\n             else ->

```

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CombinedContext(newLeft, element)\n    }\n }\n\n private fun size(): Int {\n     var cur = this\n     var size = 2\n\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\n         "$acc, $element"\n     }\n     + "]\n\n private fun writeReplace(): Any {\n     val n = size()\n     val elements =\n     arrayOfNulls<CoroutineContext>(n)\n     var index = 0\n     fold(Unit) { _, element -> elements[index++] =\n     element }\n     check(index == n)\n     @Suppress("UNCHECKED_CAST")\n     return Serialized(elements\n     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 2010-2018 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("IntrinsicsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage\nkotlin.coroutines.intrinsics\n\nimport\nkotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside\n suspend functions and either suspends\n * currently running coroutine or returns result immediately without\n suspension.\n * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend\n function did suspend the execution and will\n * not return any result immediately. In this case, the [Continuation]\n 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 * Otherwise, the return value of the\n [block] must have a type assignable to [T] and represents the result of this suspend function.\n * It means that the\n execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\n * As the result\n type of the [block] is declared as `Any?` and cannot be correctly type-checked,\n * its proper\n return type remains on the conscience of the suspend function's author.\n * Invocation of\n [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 * It is the invoker's\n responsibility to ensure that a proper invocation context is established.\n * [Continuation.intercepted] can be used to\n acquire the intercepted continuation.\n * Note that it is not recommended to call either [Continuation.resume]\n nor [Continuation.resumeWithException] functions synchronously\n * in the same stackframe where suspension\n 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",\n"RedundantSuspendModifier")\npublic suspend inline fun <T>\nsuspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =\n     throw\n     NotImplementedError("Implementation\n     of suspendCoroutineUninterceptedOrReturn is intrinsic")\n\n/**\n * This value is used as a return value of\n [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will\n not return any result immediately.\n * Note: this value should not be used in general code. Using it outside\n of the context of\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited\n to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified\n behavior of the code.\n */\n\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with\n 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\n@SinceKotlin("1.3")\n\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\n\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 */\n\npackage kotlin.experimental\n\n/** Performs a bitwise AND operation between the two values. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n\n/** Performs a bitwise OR operation between the two values. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n\n/** Performs a bitwise XOR operation between the two values. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n\n/** Inverts the bits in this value. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\n\n/** Performs a bitwise AND operation between the two values. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n/** Performs a bitwise OR operation between the two values. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n\n/** Performs a bitwise XOR operation between the two values. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n/** Inverts the bits in this value. */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\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 */\n\npackage kotlin.experimental\n\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\n@Suppress("DEPRECATION")\n\n@Experimental(level = Experimental.Level.ERROR)\n\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n\n@MustBeDocumented\n\n@Retention(AnnotationRetention.BINARY)\n\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n\n@SinceKotlin("1.3")\n\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 */\n\npackage kotlin.internal\n\n/** Specifies that the corresponding type should be ignored during type inference. */\n\n@Target(AnnotationTarget.TYPE)\n\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class NoInfer\n\n/** Specifies that the constraint built for the type during type inference should be an equality one. */\n\n@Target(AnnotationTarget.TYPE)\n\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class Exact\n\n/** Specifies that a corresponding member has the lowest priority in overload resolution. */\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class LowPriorityInOverloadResolution\n\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,

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AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class
HidesMembers\n\n/**\n * The value of this type parameter should be mentioned in input types (argument types,
receiver type or expected type).\n
*\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@SinceKotlin("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 *\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 *\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 *\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
*\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():

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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>\n
observable(initialValue: T, 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,\n
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,\n
newValue)\n
        }\n\n\nprivate 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 2010-2018 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    * Implements the core logic of a property delegate for a
read/write property that calls callback functions when changed.\n    * @param initialValue the initial value of the
property.\n    */\n    public abstract class ObservableProperty<T>(initialValue: T) : ReadWriteProperty<Any?,\n
T> {\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 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
protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true\n\n        /**\n            *
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        protected open fun afterChange(property: KProperty<*>,
oldValue: T,\n            newValue: T): Unit {\n        }\n\n        public override fun getValue(thisRef: Any?, property:
KProperty<*>): T {\n            return\n            value\n        }\n\n        public override fun setValue(thisRef:\n
Any?, property: KProperty<*>, value: T) {\n            val oldValue = this.value\n            if (!beforeChange(property,\n
oldValue, value)) {\n                return\n            }\n            this.value = value\n            afterChange(property,
oldValue, value)\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.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    * To get a seeded instance of random generator use [Random] function.\n    */\n    * @sample
samples.random.Randoms.defaultRandom\n    */\n    @SinceKotlin("1.3")\n    public 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
 public
abstract fun nextBits(bitCount: Int): Int\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
 public open fun nextInt(): Int = nextBits(32)\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
 public open fun nextInt(until: Int): Int =
nextInt(0, until)\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
 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
        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
 * 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
 public open fun
nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\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
 * \n
 public open fun nextLong(until: Long): Long = nextLong(0, until)\n
 /** \n
 * Gets the next random
`Long` from the random number generator in the specified range.\n
 * \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
 * \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
                }\n
                else -> {\n
                    val
bitCount = fastLog2(nHigh)\n
                    nextBits(bitCount).toLong().shl(32) + nextInt()\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
    } else {\n
        while (true) {\n
            val rnd = nextLong()\n
            if (rnd in from until until) return rnd\n
        }\n
    }\n
}\n
 /** \n
 * Gets the next random [Boolean] value.\n
 * \n
 public open fun nextBoolean():
Boolean = nextBits(1) != 0\n
 /** \n
 * Gets the next random [Double] value uniformly distributed between 0
(inclusive) and 1 (exclusive).\n
 * \n
 public open fun nextDouble(): Double = doubleFromParts(nextBits(26),
nextBits(27))\n
 /** \n
 * Gets the next random non-negative `Double`
from the random number generator less than the specified [until] bound.\n
 * \n
 * Generates a `Double` random
value uniformly distributed between 0 (inclusive) and [until] (exclusive).\n
 * \n
 * @throws
IllegalArgumentException if [until] is negative or zero.\n
 * \n
 public open fun nextDouble(until: Double):
Double = nextDouble(0.0, until)\n
 /** \n
 * Gets the next random `Double` from the random number generator
in the specified range.\n
 * \n
 * Generates a `Double` random value uniformly distributed between the specified
[from] (inclusive) and [until] (exclusive) bounds.\n
 * \n
 * [from] and [until] must be finite otherwise the

```

```

behavior is unspecified.\n
 * \n
 * @throws IllegalArgumentException if [from] is greater than or equal to
[until].\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 = 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 uniformly distributed between 0 (inclusive) and 1 (exclusive).\n
 * \n
 public
open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\n\n
/** \n
 * Fills a subrange of the specified byte
[array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\n
 * with random bytes.\n
 * \n
 *
@return [array] with the subrange filled with random bytes.\n
 * \n
 public open fun nextBytes(array: ByteArray,
fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n
    require(fromIndex in 0..array.size && toIndex in
0..array.size) {\n
        "fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\n
    }\n
    require(fromIndex <=
toIndex) {\n
        "fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\n
    }\n\n
    val steps = (toIndex -
fromIndex) / 4\n\n
    var position = fromIndex\n
    repeat(steps) {\n
        val v = nextInt()\n
array[position] = v.toByte()\n
        array[position + 1] = v.ushr(8).toByte()\n
        array[position + 2] =
v.ushr(16).toByte()\n
        array[position + 3] = v.ushr(24).toByte()\n
        position += 4\n
    }\n\n
    val
remainder = toIndex - position\n
    val vr = nextBits(remainder * 8)\n
    for (i in 0 until remainder) {\n
array[position + i] = vr.ushr(i * 8).toByte()\n
    }\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
 public
open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n
/** \n
 * Creates a byte
array of the specified
[size], filled with random bytes.\n
 * \n
 public open fun nextBytes(size: Int): ByteArray =
nextBytes(ByteArray(size))\n\n
/** \n
 * The default random number generator.\n
 * \n
 * On JVM this
generator is thread-safe, its methods can be invoked from multiple threads.\n
 * \n
 * @sample
samples.random.Randoms.defaultRandom\n
 * \n
 companion object Default : Random() {\n\n
    private val
defaultRandom: Random = defaultPlatformRandom()\n\n
    override fun nextBits(bitCount: Int): Int =
defaultRandom.nextBits(bitCount)\n\n
    override fun nextInt(): Int = defaultRandom.nextInt()\n\n
    override fun
nextInt(until: Int): Int = defaultRandom.nextInt(until)\n\n
    override fun nextInt(from: Int, until: Int): Int =
defaultRandom.nextInt(from, until)\n\n
    override fun nextLong(): Long = defaultRandom.nextLong()\n\n
    override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\n\n
    override fun nextLong(from:
Long, until: Long):
Long = defaultRandom.nextLong(from, until)\n\n
    override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()\n\n
    override fun nextDouble(): Double = defaultRandom.nextDouble()\n\n
    override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n\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\n
    override fun nextBytes(size: Int): ByteArray =
defaultRandom.nextBytes(size)\n\n
    override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)\n\n
    @Deprecated("Use Default companion
object instead", level = DeprecationLevel.HIDDEN)\n
    @Suppress("DEPRECATION_ERROR")\n
    @kotlin.jvm.JvmField\n
    public val Companion: Random.Companion
= Random.Companion\n
}\n\n
@Deprecated("Use Default companion object instead", level =
DeprecationLevel.HIDDEN)\n
public object Companion : Random() {\n
    override fun nextBits(bitCount: Int):
Int = Default.nextBits(bitCount)\n
}\n\n
/** \n
 * Returns a repeatable random number generator seeded with the
given [seed] `Int` value.\n
 * \n
 * Two generators with the same seed produce the same sequence of values within the
same version of Kotlin runtime.\n
 * \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
 * \n
 * @sample samples.random.Randoms.seededRandom\n
 * \n
 @SinceKotlin("1.3")\n
public 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 *\n * Two generators with the same seed produce the same sequence
of values within the same version of Kotlin runtime.\n *\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 *\n * @sample samples.random.Randoms.seededRandom\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 *\n * Generates an `Int` 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("1.3")\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 *\n * Generates a `Long`
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("1.3")\npublic fun
Random.nextLong(range: LongRange): Long = when {\n  range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n  range.last < Long.MAX_VALUE ->
nextLong(range.first, range.last + 1)\n  range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) +
1\n  else -> nextLong()\n}\n\n\ninternal expect fun defaultPlatformRandom(): Random\n\ninternal expect fun
doubleFromParts(hi26: Int, low27: Int): Double\n\n@UseExperimental(ExperimentalStdlibApi::class)\n\ninternal fun
fastLog2(value: Int): Int
= 31 - value.countLeadingZeroBits()\n\n**\n * Takes upper [bitCount] bits (0..32) from this number. *\n\ninternal fun
Int.takeUpperBits(bitCount: Int): Int =\n  this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\n\ninternal fun
checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun
checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal
fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until)
}\n\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from,
$until)."\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\n**\n * Gets the next random [UInt] from the random number generator.\n *\n *
Generates
a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE]
(inclusive).\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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 *\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the
specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(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("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Random.nextUInt(from: UInt, until: UInt): UInt {\n  checkUIntRangeBounds(from, until)\n  val
signedFrom = from.toInt() xor Int.MIN_VALUE\n  val signedUntil = until.toInt() xor Int.MIN_VALUE\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

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextUInt(range: UIntRange): UInt
= when {^   range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")^   range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)^   range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u^   else -> nextUInt()}^n/n/**^   * Gets the next random [ULong] from the random number generator.^   * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).^   *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextULong(): ULong = nextLong().toULong()^n/n/**^   * Gets the next random [ULong] from the random number generator less than the specified [until] bound.^   * Generates a [ULong] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).^   *^   * @throws IllegalArgumentException if [until] is zero.^   *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)^n/n/**^   * Gets the next random [ULong] from the random number generator in the specified range.^   * Generates a [ULong] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.^   *^   * @throws IllegalArgumentException if [from] is greater than or equal to [until].^   *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextULong(from: ULong, until: ULong): ULong {^   checkULongRangeBounds(from, until)^   val signedFrom = from.toLong() xor Long.MIN_VALUE^   val signedUntil = until.toLong() xor Long.MIN_VALUE^   val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE^   return signedResult.toULong()}^n/n/**^   * Gets the next random [ULong] from the random number generator in the specified [range].^   * Generates a [ULong] random value uniformly distributed in the specified [range]:^   * from `range.start` inclusive to `range.endInclusive` inclusive.^   *^   * @throws IllegalArgumentException if [range] is empty.^   *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextULong(range: ULongRange): ULong = when {^   range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")^   range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)^   range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u^   else -> nextULong()}^n/n/**^   * Fills the specified unsigned byte [array] with random bytes and returns it.^   *^   * @return [array] filled with random bytes.^   *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextUBytes(array: UByteArray): UByteArray {^   nextBytes(array.asByteArray())^   return array}^n/n/**^   * Creates an unsigned byte array of the specified [size], filled with random bytes.^   *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()^n/n/**^   * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.^   *^   * @return [array] with the subrange filled with random bytes.^   *^@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}^n/n^@ExperimentalUnsignedTypes^internal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }^@ExperimentalUnsignedTypes^internal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until) }^n"/**^   * 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.^   *^@npackage kotlin.random^n/n/**^   * 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^   *^   *^@ninternal class XorWowRandom^@ninternal 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() {
    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 xorxow 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)
    }
}
/*
 * 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.
 */
@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 [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 fun hashCode(): Int {
        return if (isEmpty()) -1 else
        31 * _start.hashCode() + _endInclusive.hashCode()
    }
    override fun toString(): String =
        "$_start..$_endInclusive"
}
/**
 * Creates a range from this [Double] value to the specified [that] value.
 *
 * Numbers are compared with the ends of this range according to IEEE-754.
 *
 * @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
}

```

```

= _endInclusive\n\n override fun lessThanOrEquals(a: Float, b: Float): Boolean = a <= b\n\n override fun
contains(value: Float): Boolean = value >= _start && value <= _endInclusive\n\n override fun isEmpty(): Boolean =
!(_start <= _endInclusive)\n\n override fun equals(other: Any?): Boolean {\n\n return other is ClosedFloatRange
&& (isEmpty() && other.isEmpty()) ||\n\n _start == other._start && _endInclusive == other._endInclusive)\n
}\n\n override fun hashCode(): Int {\n\n return if (isEmpty()) -1 else 31 * _start.hashCode() +
_endInclusive.hashCode()\n\n }\n\n override fun toString(): String
= \"$_start..$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Float] value to the specified [that] value.\n
*\n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample
samples.ranges.Ranges.rangeFromFloat\n *^n@SinceKotlin("1.1")\npublic operator fun Float.rangeTo(that:
Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n/**\n * Returns `true` if this iterable
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 <T, R> R.contains(element: T?):
Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n\n element != null &&
contains(element)\n\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n\n if (!isPositive)
throw IllegalArgumentException("Step must be positive, was: $step.")\n}\n\n"/*\n * Copyright 2010-2019
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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:kotlin.jvm.JvmName("KClasses")\n@file:Suppress("UNCHECKED_CAST")\n\npackage
kotlin.reflect\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Casts the given [value] to the
class represented by this [KClass] object.\n * Throws an exception if the value is `null` or if it is not an instance of
this class.\n *^n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on
JVM.\n *^n * @see [KClass.isInstance]\n *^n * @see [KClass.safeCast]\n
*\n *^n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@LowPriorityInOverloadResolution\nfun <T : Any>
KClass<T>.cast(value: Any?): T {\n\n if (!isInstance(value)) throw ClassCastException("Value cannot be cast to
$qualifiedName")\n\n return value as T\n}\n\n/**\n * Casts the given [value] to the class represented by this
[KClass] object.\n * Returns
`null` if the value is `null` or if it is not an instance of this class.\n *^n * This is an experimental function that
behaves as a similar function from kotlin.reflect.full on JVM.\n *^n * @see [KClass.isInstance]\n *^n * @see
[KClass.cast]\n *^n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@LowPriorityInOverloadResolution\nfun
<T : Any> KClass<T>.safeCast(value: Any?): T? {\n\n return if (isInstance(value)) value as T else 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@package
kotlin.reflect\n\n/**\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\n
*\n *^n@Suppress("unused") // KT-12448\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun
<reified T> typeOf(): KType =\n\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@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 *^next interface
Appendable {\n\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
Appendable.\n *^n * fun append(value: CharSequence?): Appendable\n\n

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/**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this
instance.\n * \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 `"\n\n\n\n"`. \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 * 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
*\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 `"\n\n\n\n"`. \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 * @since Kotlin("1.3")\n * @ExperimentalStdlibApi\n * public fun <T : Appendable>
T.appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): T {\n
@Suppress("UNCHECKED_CAST")\n return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends
all arguments to the given [Appendable]. \n * \n * public fun <T : Appendable> T.append(vararg value:
CharSequence?): T {\n for (item in value)\n append(item)\n return this\n}\n\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-
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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("CharsKt")\n * @package kotlin.text\n * \n\n/**\n
* Concatenates this Char and a String.\n * \n * @sample samples.text.Chars.plus\n
*\n * @kotlin.internal.InlineOnly\n * public inline operator fun Char.plus(other: String): String = this.toString() +
other\n}\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n
*\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`. \n * \n * Two
characters are considered the same
ignoring case if at least one of the following is `true`:\n * - The two characters are the same (as compared by the
== operator)\n * - Applying the method [toUpperCase] to each character produces the same result\n * - Applying
the method [toLowerCase] to each character produces the same result\n * \n * @sample samples.text.Chars.equals\n
*\n * public fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\n if (this == other) return true\n
if (!ignoreCase) return false\n if (this.toUpperCase() == other.toUpperCase()) return true\n if
(this.toLowerCase() == other.toLowerCase()) return true\n return false\n}\n}\n\n/**\n * Returns `true` if this
character is a Unicode surrogate code unit.\n * \n * public fun Char.isSurrogate(): Boolean = this in
Char.MIN_SURROGATE..Char.MAX_SURROGATE\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.JvmMultifileClass\n * @file: kotlin.jvm.JvmName("StringsKt")\n * @package
kotlin.text\n * \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 * \n * Doesn't
affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n * \n * Doesn't preserve the
original line endings.\n * \n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is
`|` (pipe character).\n * \n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see
kotlin.text.isWhitespace\n * \n * public fun String.trimMargin(marginPrefix: String = "|"): String =\n
replaceIndentByMargin("|", marginPrefix)\n}\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and

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```

replace it with [newIndent].\n *\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 {
require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }
val lines = lines()
return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->
val
firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() })
when {
firstNonWhitespaceIndex == -1 -> null
line.startsWith(marginPrefix, firstNonWhitespaceIndex) ->
line.substring(firstNonWhitespaceIndex + marginPrefix.length)
else -> null
})
})
}\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 *\n * Note that blank lines do not affect the
detected indent level.\n
 *\n * In case if there are non-blank lines with no leading 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/**
 * Detects a common minimal indent like it
does [trimIndent] and replaces it with the specified [newIndent].\n *\npublic fun String.replaceIndent(newIndent:
String = `|`): String {
val lines = lines()
val minCommonIndent = lines
.filter(String::isNotBlank)
.map(String::indentWidth)
.min() ?: 0
return lines.reindent(length + newIndent.length * lines.size,
getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })
})
}\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 = `|`): String =
lineSequence()
.map {
when {
it.isBlank() -> {
when {
it.length < indent.length ->
indent
else -> it
}
}
else -> indent + it
}
}
}
.joinToString("\n")
private fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1)
length else it }
private fun getIndentFunction(indent: String) = when {
indent.isEmpty() -> { line: String ->
line }
else -> { line: String -> indent + line }
}
private inline fun List<String>.reindent(
resultSizeEstimate: Int,
indentAddFunction: (String) -> String,
indentCutFunction: (String) -> String?):
String {
val lastIndex = lastIndex
return mapIndexedNotNull { index, value ->
if ((index == 0 || index
== lastIndex) && value.isBlank())
null
else
indentCutFunction(value)?.let(indentAddFunction)?: value
}
.joinTo(StringBuilder(resultSizeEstimate),
`|`)\n`
.toString()
}\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/**
 * Defines names for Unicode symbols used in proper
Typography.\n *\npublic object Typography {
/** The character &#x22; \u2013 quotation mark *\n public
const val quote: Char = "\u0022"
/** The character &#x24; \u2013 dollar sign *\n public const val dollar:
Char = "\u0024"
/** The character &#x26; \u2013 ampersand *\n public const val amp: Char = "\u0026"
/** The character &#x3C; \u2013 less-than sign *\n public const val less: Char = "\u003C"
/** The character
&#x3E;
\u2013 greater-than sign *\n public const val greater: Char = "\u003E"
/** The non-breaking space character
*\n public const val nbsp: Char = "\u00A0"
/** The character &#xD7; *\n public const val times: Char =
"\u00D7"
/** The character &#xA2; *\n public const val cent: Char = "\u00A2"
/** The character &#xA3;
*\n public const val pound: Char = "\u00A3"
/** The character &#xA7; *\n public const val section: Char =
"\u00A7"
/** The character &#xA9; *\n public const val copyright: Char = "\u00A9"
/** The character
&#xAB; *\n public const val leftGuillemete: Char = "\u00AB"
/** The character &#xBB; *\n public const
val rightGuillemete: Char = "\u00BB"
/** The character &#xAE; *\n public const val registered: Char =
"\u00AE"
/** The character &#xB0; *\n public const val degree: Char = "\u00B0"
/** The character
&#xB1; *\n public const val plusMinus: Char = "\u00B1"
/**

```

The character `¶` `*\n` `public const val paragraph: Char = "\u00B6\n` `/**` The character `·` `*\n` `public const val middleDot: Char = "\u00B7\n` `/**` The character `½` `*\n` `public const val half: Char = "\u00BD\n` `/**` The character `–` `*\n` `public const val ndash: Char = "\u2013\n` `/**` The character `—` `*\n` `public const val mdash: Char = "\u2014\n` `/**` The character `‘` `*\n` `public const val leftSingleQuote: Char = "\u2018\n` `/**` The character `’` `*\n` `public const val rightSingleQuote: Char = "\u2019\n` `/**` The character `‚` `*\n` `public const val lowSingleQuote: Char = "\u201A\n` `/**` The character `“` `*\n` `public const val leftDoubleQuote: Char = "\u201C\n` `/**` The character `”` `*\n` `public const val rightDoubleQuote: Char = "\u201D\n` `/**` The character `„` `*\n` `public const val lowDoubleQuote: Char = "\u201E\n` `/**` The character `†` `*\n` `public const val dagger: Char = "\u2020\n` `/**` The character `‡` `*\n` `public const val doubleDagger: Char = "\u2021\n` `/**` The character `•` `*\n` `public const val bullet: Char = "\u2022\n` `/**` The character `…` `*\n` `public const val ellipsis: Char = "\u2026\n` `/**` The character `′` `*\n` `public const val prime: Char = "\u2032\n` `/**` The character `″` `*\n` `public const val doublePrime: Char = "\u2033\n` `/**` The character `€` `*\n` `public const val euro: Char = "\u20AC\n` `/**` The character `™` `*\n` `public const val tm: Char = "\u2122\n` `/**` The character `≈` `*\n` `public const val almostEqual: Char = "\u2248\n` `/**` The character `≠` `*\n` `public const val notEqual: Char = "\u2260\n` `/**` The character `≤` `*\n` `public const val lessOrEqual: Char = "\u2264\n` `/**` The character `≥` `*\n` `public const val greaterOrEqual: Char = "\u2265\n` `"}\n` `/**\n` `* Copyright 2010-2018 JetBrains s.r.o.`

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`\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.text\n \n /**\n * Represents a collection of captured groups in a single match of a regular expression.
\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
\n *\n * An element of the collection at the particular index can be `null`
\n * if the corresponding group in the regular expression is optional and
\n * there was no match captured by that group.
\n *\n public interface MatchGroupCollection : Collection<MatchGroup?> {\n \n /** Returns a group with the specified [index].
\n *\n * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.
\n *\n * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0
\n * corresponds to the entire match.
\n *\n public operator fun get(index: Int): MatchGroup?\n \n /**\n * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.
\n *\n @SinceKotlin("1.1")\n public interface MatchNamedGroupCollection : MatchGroupCollection {\n \n /**\n * Returns a named group with the specified [name].
\n * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.
\n * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.
\n * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.
\n *\n public operator fun get(name: String): MatchGroup?\n \n /**\n * Represents the results from a single regular expression match.
\n *\n public interface MatchResult {\n \n /** The range of indices in the original string where match was captured.
\n *\n public val range: IntRange\n /** The substring from the input string captured by this match.
\n *\n public val value: String\n /**\n * A collection of groups matched by the regular expression.
\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
\n *\n public val groups: MatchGroupCollection\n /**\n * A list of matched indexed group values.
\n *\n * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
\n *\n * If the group in the regular expression is optional and there were no match captured by that group,
\n * corresponding item in [groupValues] is an empty string.
\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues
\n *\n public val groupValues: List<String>\n \n /**\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment`

of group values.
`* component1` corresponds to the value of the first group, `component2` of the second, and so on.
`@sample samples.text.Regexps.matchDestructuringToGroupValues`
`public val destructured: Destructured` `get() = Destructured(this)`
`/** Returns a new [MatchResult] with the results for the next match, starting at the position`
`at which the last match ended (at the character after the last matched character).`
`public fun next(): MatchResult?`
`/** Provides components for destructuring assignment of group values.`
`[component1]` corresponds to the value of the first group, `[component2]`

of the second, and so on.
`If the group in the regular expression is optional and there were no match captured by that group,`
`corresponding component value is an empty string.`
`@sample samples.text.Regexps.matchDestructuringToGroupValues`
`public class Destructured` `internal constructor(public val match: MatchResult) {`
`@kotlin.internal.InlineOnly`
`public operator inline fun component1(): String = match.groupValues[1]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component2(): String = match.groupValues[2]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component3(): String = match.groupValues[3]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component4(): String = match.groupValues[4]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component5(): String = match.groupValues[5]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component6(): String = match.groupValues[6]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component7(): String = match.groupValues[7]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component8(): String = match.groupValues[8]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component9(): String = match.groupValues[9]`
`@kotlin.internal.InlineOnly`
`public operator inline fun component10(): String = match.groupValues[10]`
`/** Returns destructured group values as a list of strings.`
`First value in the returned list corresponds to the value of the first group, and so on.`
`@sample samples.text.Regexps.matchDestructuringToGroupValues`
`public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)`
`} }`
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`package kotlin.time`
`import kotlin.math.abs`
`@UseExperimental(ExperimentalTime::class)`
`private inline val storageUnit get() = DurationUnit.NANOSECONDS`
`/** Represents the amount of time one instant of time is away from another instant.`
`A negative duration is possible in a situation when the second instant is earlier than the first one.`
`An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.`
`To construct a duration use either the extension function [toDuration],`
`or the extension properties [hours], [minutes], [seconds], and so on,`
`available on [Int], [Long], and [Double] numeric types.`
`To get the value of this duration expressed in a particular [duration units][DurationUnit]`
`use the functions [toInt], [toLong], and [toDouble]`
`or the properties`

`[inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.`
`@SinceKotlin("1.3")`
`@ExperimentalTime`
`@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")`
`public inline class Duration` `internal constructor(internal val value: Double) : Comparable<Duration>`
`{`
`// TODO: backend fails on init block, wait for KT-28055`
`init {`
`require(_value.isNaN().not())`
`}`
`companion object {`
`/** The duration equal to exactly 0 seconds.`
`public val ZERO: Duration = Duration(0.0)`
`/** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire.`
`public val INFINITE: Duration = Duration(Double.POSITIVE_INFINITY)`
`/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].`
`public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =`
`convertDurationUnit(value, sourceUnit, targetUnit)`
`}`
`// arithmetic operators`
`/** Returns the negative of this value.`
`public operator fun unaryMinus(): Duration = Duration(-value)`
`/** Returns a duration whose value is the sum of this and [other] duration values.`
`public operator fun plus(other: Duration):`


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Duration = Duration(value + other.value)\n\n /** Returns a duration whose value is the difference between this
and [other] duration values. */\n public operator fun minus(other: Duration): Duration = Duration(value -
other.value)\n\n /** Returns a duration whose value is this duration value multiplied by the given [scale] number.
*/\n public operator fun times(scale: Int): Duration = Duration(value * scale)\n\n /** Returns a duration whose
value is this duration value multiplied by the given [scale] number. */\n public operator fun times(scale: Double):
Duration = Duration(value * scale)\n\n /** Returns a duration whose value
is this duration value divided by the given [scale] number. */\n public operator fun div(scale: Int): Duration =
Duration(value / scale)\n\n /** Returns a duration whose value is this duration value divided by the given [scale]
number. */\n public operator fun div(scale: Double): Duration = Duration(value / scale)\n\n /** Returns a
number that is the ratio of this and [other] duration values. */\n public operator fun div(other: Duration): Double =
this.value / other.value\n\n /** Returns true, if the duration value is less than zero. */\n public fun isNegative():
Boolean = value < 0\n\n /** Returns true, if the duration value is greater than zero. */\n public fun isPositive():
Boolean = value > 0\n\n /** Returns true, if the duration value is infinite. */\n public fun isInfinite(): Boolean =
value.isInfinite()\n\n /** Returns true, if the duration value is finite. */\n public fun isFinite(): Boolean =
value.isFinite()\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 =
this.value.compareTo(other.value)\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 * If the value doesn't fit in [Int] range, i.e. it's
greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n * it is coerced into that range.\n */\n\n public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n\n action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent,
nanosecondsComponent)\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 * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than
[Int.MIN_VALUE],\n * it is coerced into that range.\n */\n\n public inline fun <T> toComponents(action:
(hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n\n action(inHours.toInt(),
minutesComponent, secondsComponent, nanosecondsComponent)\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 * If the value doesn't fit in [Int] range, i.e. it's greater
than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n * it is coerced into that range.\n */\n\n public inline fun <T> toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n\n action(inMinutes.toInt(), secondsComponent, nanosecondsComponent)\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

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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    * If the value doesn't fit in [Long] range, i.e. it's greater than [Long.MAX_VALUE]
or less than [Long.MIN_VALUE],\n    * it is coerced into that range.\n
    */\n    public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T =\n
action(inSeconds.toLong(), nanosecondsComponent)\n\n    @PublishedApi\n    internal val hoursComponent: Int
get() = (inHours % 24).toInt()\n    @PublishedApi\n    internal val minutesComponent: Int get() = (inMinutes %
60).toInt()\n    @PublishedApi\n    internal val secondsComponent: Int get() = (inSeconds % 60).toInt()\n
    @PublishedApi\n    internal val nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()\n\n    //
conversion to units\n    /** Returns the value of this duration expressed as a [Double] number of the specified
[unit]. */\n    public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)\n
/**\n    * Returns the value of this duration expressed as a [Long] number of the specified [unit].\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    */\n    public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()\n\n    /**\n    * Returns the value of this duration expressed as an [Int] number of the specified [unit].\n    * If the value
doesn't fit in the range of [Int] type, it is coerced into that range, see the conversion [Double.toInt] for details.\n
    */\n    public fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()\n\n    /** The value of this duration
expressed as a [Double] number of 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
    public val inHours: Double get() = toDouble(DurationUnit.HOURS)\n\n    /** The value of this duration expressed
as a [Double] number of 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    public val
inSeconds: Double get() = toDouble(DurationUnit.SECONDS)\n\n    /** The value of this duration expressed as a
[Double] number of 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    public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)\n\n
/** The value of this duration expressed as a [Double] number of nanoseconds. */\n    public val inNanoseconds:
Double get() = toDouble(DurationUnit.NANOSECONDS)\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 1292 years.\n    */\n
    public fun toLongNanoseconds():
Long = toLong(DurationUnit.NANOSECONDS)\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 1292 million years.\n    */\n    public fun
toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)\n\n    /**\n    * Returns a string
representation of this duration value expressed in the unit which yields the most compact and readable number
value.\n    * Special cases:\n    * - zero duration is formatted as `0s`\n    * - the infinite duration is
formatted as `Infinity` without unit\n    * - very small durations (less than 1e-15 s) are expressed in seconds and
formatted in scientific notation\n    * - very big durations (more than 1e+7 days)
are expressed in days and formatted in scientific notation\n    * @return the value of duration in the
automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n
    */\n    * @sample samples.time.Durations.toStringDefault\n    */\n    override fun toString(): String = when {\n
isInfinite() -> value.toString()\n        value == 0.0 -> `0s`\n        else -> {\n            val absNs =
absoluteValue.inNanoseconds\n            var scientific = false\n            var maxDecimals = 0\n            val unit = when
{\n                absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }\n                absNs < 1 ->
DurationUnit.NANOSECONDS.also { maxDecimals = 7 }\n                absNs < 1e3 ->

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DurationUnit.NANOSECONDS\n          absNs < 1e6 -> DurationUnit.MICROSECONDS\n          absNs <
1e9 -> DurationUnit.MILLISECONDS\n          absNs < 1000e9 -> DurationUnit.SECONDS\n          absNs
< 60_000e9 -> DurationUnit.MINUTES\n          absNs < 3600_000e9 -> DurationUnit.HOURS\n
absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\n          else -> DurationUnit.DAYS.also { scientific = true }\n
          }\n          val value = toDouble(unit)\n          when {\n          scientific -> formatScientific(value)\n
maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)\n          else -> formatToExactDecimals(value,
precision(abs(value)))\n          } + unit.shortName()\n          }\n          }\n          private fun precision(value: Double): Int =
when {\n          value < 1 -> 3\n          value < 10 -> 2\n          value < 100 -> 1\n          else -> 0\n          }\n          /**\n          *
Returns a string representation of this duration value expressed in the given [unit]\n          * and formatted with the
specified [decimals] number of digits after decimal point.\n          *\n          * Special cases:\n          * - the infinite duration is
formatted as `\"Infinity\"`
without unit\n          *\n          * @return the value of duration in the specified [unit] followed by that unit abbreviated
name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n          *\n          * @throws IllegalArgumentException if [decimals] is less than
zero.\n          *\n          * @sample samples.time.Durations.toStringDecimals\n          */\n          public fun toString(unit:
DurationUnit, decimals: Int = 0): String {\n          require(decimals >= 0) { \"decimals must be not negative, but was
$decimals\" }\n          if (isInfinite()) return value.toString()\n          val number = toDouble(unit)\n          return when {\n
          abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\n          else ->
formatScientific(number)\n          } + unit.shortName()\n          }\n          }\n          /**\n          * Returns an ISO-8601 based string
representation of this duration.\n          *\n          * The returned value is presented in the format `PTHmMs.fS`, where `h`,
`m`, `s` are the integer components of this duration
(see [toComponents])\n          * and `f` is a fractional part of second. Depending on the roundness of the value the
fractional part can be formatted with either\n          * 0, 3, 6, or 9 decimal digits.\n          *\n          * If the hours component
absolute value of this duration is greater than [Int.MAX_VALUE], it is replaced with [Int.MAX_VALUE],\n          * so
the infinite duration is formatted as `\"PT2147483647H\"`.\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          @UseExperimental(ExperimentalStdlibApi::class)\n          public fun
toIsoString(): String = buildString {\n          if (isNegative()) append('-')\n          append(\"PT\")\n
absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\n          val hasHours = hours != 0\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          append(seconds)\n          if (nanoseconds != 0) {\n          append('.')\n
val nss = nanoseconds.toString().padStart(9, '0')\n          when {\n          nanoseconds % 1_000_000
== 0 -> appendRange(nss, 0, 3)\n          nanoseconds % 1_000 == 0 -> appendRange(nss, 0, 6)\n
          else -> append(nss)\n          }\n          }\n          append('S')\n          }\n          }\n          }\n          }\n
constructing from number of units\n          // extension functions\n          /** Returns a [Duration] equal to this [Int] number of
the specified [unit]. *\n          @SinceKotlin(\"1.3\")\n          @ExperimentalTime\n          public fun Int.toDuration(unit:
DurationUnit): Duration = toDouble().toDuration(unit)\n          /** Returns a [Duration] equal to this [Long] number of
the specified [unit]. *\n          @SinceKotlin(\"1.3\")\n          @ExperimentalTime\n          public fun Long.toDuration(unit:
DurationUnit): Duration = toDouble().toDuration(unit)\n          /** Returns a [Duration] equal to this [Double] number of
the specified [unit]. *\n          @SinceKotlin(\"1.3\")\n          @ExperimentalTime\n          public fun Double.toDuration(unit:
DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))\n          // constructing from number of
units\n          // extension properties\n          /** Returns a [Duration] equal to this [Int] number of nanoseconds.
*\n          @SinceKotlin(\"1.3\")\n          @ExperimentalTime\n          public val Int.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n          /** Returns a [Duration] equal to this [Long] number of
nanoseconds. *\n          @SinceKotlin(\"1.3\")\n          @ExperimentalTime\n          public val Long.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n          /** Returns a [Duration] equal

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to this [Double] number of nanoseconds. `*\n@SinceKotlin("1.3")\n@ExperimentalTime\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\npublic val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\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\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\npublic val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\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\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\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of seconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\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\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\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Double] number of minutes. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Int] number of hours. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of hours. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Double] number of hours. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Int] number of days. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Double] number of days. *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a duration whose value is the specified [duration] value multiplied by this number. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/** Returns a duration whose value is the specified [duration] value multiplied by this number. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int): String\n\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String\n\ninternal expect fun formatScientific(value: Double): String", "/*\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`

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* \n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName("DurationUnitKt")\n\npackage
kotlin.time\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *\n *
The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic expect enum class DurationUnit {\n  /**\n
* Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n   *\n   NANOSECONDS,\n
/**\n   * Time unit representing one microsecond, which is 1/1000
of a millisecond.\n   *\n   MICROSECONDS,\n   /**\n   * Time unit representing one millisecond, which is
1/1000 of a second.\n   *\n   MILLISECONDS,\n   /**\n   * Time unit representing one second.\n   *\n
SECONDS,\n   /**\n   * Time unit representing one minute.\n   *\n   MINUTES,\n   /**\n   * Time unit
representing one hour.\n   *\n   HOURS,\n   /**\n   * Time unit representing one day, which is always equal to
24 hours.\n   *\n   DAYS;\n}\n\n/** Converts the given time duration [value] expressed in the specified
[sourceUnit] into the specified [targetUnit]. *\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal expect fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):
Double\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal fun DurationUnit.shortName(): String = when
(this) {\n  DurationUnit.NANOSECONDS -> "ns"\n  DurationUnit.MICROSECONDS -> "us"\n
DurationUnit.MILLISECONDS -> "ms"\n
DurationUnit.SECONDS -> "s"\n  DurationUnit.MINUTES -> "m"\n  DurationUnit.HOURS -> "h"\n
DurationUnit.DAYS -> "d"}\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")\npublic annotation class
ExperimentalTime\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.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@SinceKotlin("1.3")\n@ExperimentalTime\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
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   public object Monotonic : TimeSource by
MonotonicTimeSource {\n     override fun toString(): String = MonotonicTimeSource.toString()\n   }\n\n
public companion object {\n   }\n}\n\n}/**\n * Represents a time point notched on a particular [TimeSource].
Remains bound to the time source

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it was taken from\n * and allows querying for the duration of time elapsed from that point (see the function
[elapsedNow]).\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic 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 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 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 public open operator fun minus(duration: Duration): TimeMark = plus(-duration)\n\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 public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\n\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 public fun
hasNotPassedNow(): Boolean =
elapsedNow().isNegative()\n}\n\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\npublic inline
operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is
disallowed.")\n\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\npublic inline operator fun
TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is
disallowed.")\n\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\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource interface
instead.", ReplaceWith("TimeSource", "kotlin.time.TimeSource"))\n\npublic typealias Clock =
TimeSource\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeMark class instead.",
ReplaceWith("TimeMark", "kotlin.time.TimeMark"))\n\npublic typealias ClockMark = TimeMark\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\npackage
kotlin.time\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n\ninternal expect object MonotonicTimeSource :
TimeSource\n\n\n/**\n * An abstract class
used to implement time sources that return their readings as [Long] values in the specified [unit].\n *\n *\n * @property
unit The unit in which this time source's readings are expressed.\n
*/\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n\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\n\n protected abstract fun read(): Long\n\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\n override fun

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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 *\n * @property unit The unit in which this time
source's readings are expressed.\n *\n @SinceKotlin("1.3")\n @ExperimentalTime\n public 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 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 *\n * The current reading value can be advanced by the specified duration
amount with the operator [plusAssign]:\n *\n * ```\n * val timeSource = TestTimeSource()\n * timeSource +=
10.seconds\n * ```\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
*\n @SinceKotlin("1.3")\n @ExperimentalTime\n public class TestTimeSource : AbstractLongTimeSource(unit =
DurationUnit.NANOSECONDS) {\n private var reading: Long = 0L\n\n override fun read(): Long = reading\n\n
/**\n\n * Advances the current reading value of this time source by the specified [duration].\n *\n * [duration] value
is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n *\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) {\n val delta =
duration.toDouble(unit)\n val longDelta = delta.toLong()\n reading = if (longDelta != Long.MIN_VALUE
&& longDelta != Long.MAX_VALUE) {\n // when delta fits in long, add it as long\n val newReading
= reading + longDelta\n if (reading xor longDelta >= 0 && reading xor newReading < 0)
overflow(duration)\n newReading\n } else {\n // when delta is greater than
long, add it as double\n val newReading = reading + delta\n if (newReading > Long.MAX_VALUE ||
newReading < Long.MIN_VALUE) overflow(duration)\n newReading.toLong()\n } \n\n private
fun overflow(duration: Duration) {\n throw IllegalStateException("TestTimeSource will overflow if its reading
${reading}ns is advanced by $duration.")\n
}\n}\n\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use TimeSource.Monotonic instead.",
ReplaceWith("TimeSource.Monotonic", "kotlin.time.TimeSource"))\n public typealias MonoClock =
TimeSource.Monotonic\n\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use
AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource",
"kotlin.time.AbstractLongTimeSource"))\n public typealias AbstractLongClock =
AbstractLongTimeSource\n\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use
AbstractDoubleTimeSource instead.", ReplaceWith("AbstractDoubleTimeSource",
"kotlin.time.AbstractDoubleTimeSource"))\n public typealias AbstractDoubleClock =
AbstractDoubleTimeSource\n\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use TestTimeSource
instead.", ReplaceWith("TestTimeSource", "kotlin.time.TestTimeSource"))\n public typealias TestClock =
TestTimeSource\n\n /**\n * Copyright 2010-2020 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 @npackage kotlin.time\n nimport kotlin.contracts.*\n\n /**\n * Executes the given function [block] and returns the

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duration of elapsed time interval.\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun measureTime(block: () -> Unit): Duration {\n
contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n } \n return
TimeSource.Monotonic.measureTime(block)\n}\n\n/**\n * Executes
the given function [block] and returns the duration of elapsed time interval.\n * The elapsed time is measured
with the specified `this` [TimeSource] instance.\n * \n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline
fun TimeSource.measureTime(block: () -> Unit): Duration {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n\n    val mark = markNow()\n    block()\n    return
mark.elapsedNow()\n}\n\n/**\n * Data class representing a result of executing an action, along with the duration
of elapsed time interval.\n * \n * @property value the result of the action.\n * @property duration the time elapsed to
execute the action.\n * \n@SinceKotlin("1.3")\n@ExperimentalTime\npublic data class TimedValue<T>(val
value: T, val duration: Duration)\n\n/**\n * Executes the given function [block] and returns an instance of
[TimedValue] class, containing both\n * the result of the function execution and the duration of elapsed time
interval.\n * \n *
The elapsed time is measured with [TimeSource.Monotonic].\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T> measureTimedValue(block: () -> T):
TimedValue<T> {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n\n    return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time
interval.\n * \n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T> TimeSource.measureTimedValue(block: ()
-> T): TimedValue<T> {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n\n
val mark = markNow()\n    val result = block()\n    return TimedValue(result, mark.elapsedNow())\n}\n\n"/*\n *
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* 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"/*\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 * 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     * \n     * public constructor(major: Int, minor: Int) : this(major,
minor, 0)\n     * \n     * private val version = versionOf(major, minor, patch)\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.$patch\"\n     *     }\n     *     return major.shl(16) + minor.shl(8) + patch\n
}\n     * \n     * /**\n     * Returns the string representation of this version\n     * \n     * \n     * override fun toString(): String =
\"$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     * \n     * public fun isAtLeast(major: Int, minor: Int): Boolean ==
this.version >= versionOf(major, minor, 0)\n     * \n     * this.major > major || (this.major == major &&
this.minor >= minor)\n     * \n     * /**\n     * Returns `true` if this version is not less than the version specified\n     * with

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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     * Returns the current version of the Kotlin standard
library.\n    */\n    @kotlin.jvm.JvmField\n    public val CURRENT: KotlinVersion = KotlinVersion(1, 3,
71) // value is written here automatically during build\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.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned
a value, and `false` otherwise.\n * Cannot be used in an inline function, to avoid binary compatibility issues.\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 * To create an instance of
[Lazy] use the [lazy] function.\n */\n\npublic interface Lazy<out T> {\n    /**\n     * Gets the lazily initialized value of
the current Lazy instance.\n     * Once the value was initialized it must not change during the rest of lifetime of
this Lazy instance.\n    */\n    public val value: T\n\n    /**\n     * Returns `true` if a value for this Lazy instance has
been already initialized, and `false` otherwise.\n     * Once this function has returned `true` it stays `true` for the rest
of lifetime of this Lazy instance.\n    */\n    public fun isInitialized(): Boolean\n}\n\n/**\n * Creates a new instance
of the [Lazy] that is already initialized with the specified [value].\n */\n\npublic fun <T> lazyOf(value: T): Lazy<T> =
InitializedLazyImpl(value)\n\n/**\n * An extension to delegate a read-only property of type [T] to an instance of
[Lazy].\n * This extension allows to use instances of Lazy for property delegation:\n * `val property: String by
lazy { initializer }`\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Lazy<T>.getValue(thisRef:
Any?, property: KProperty<*>): T = value\n\n/**\n * Specifies how a [Lazy] instance synchronizes initialization
among multiple threads.\n */\n\npublic enum class LazyThreadSafetyMode
{\n    /**\n     * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\n    */\n    SYNCHRONIZED,\n\n    /**\n     * Initializer function can be called several times on concurrent access to
uninitialized [Lazy] instance value,\n     * but only the first returned value will be used as the value of [Lazy]
instance.\n    */\n    PUBLICATION,\n\n    /**\n     * 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.\n     * This mode
should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\n    */\n    NONE,\n}\n\n\ninternal object UNINITIALIZED_VALUE\n\n// internal to be called from lazy in
JS\n\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\n    private var initializer:
() -> T)? = initializer\n    private var _value: Any? = UNINITIALIZED_VALUE\n\n    override val value: T\n        get() {\n            if (_value === UNINITIALIZED_VALUE) {\n                _value =
initializer!()\n                initializer = null\n            }\n            @Suppress("UNCHECKED_CAST")\n            return
_value as T\n        }\n\n    override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\n\n    override fun toString(): String = if (isInitialized()) value.toString() else "Lazy value not initialized yet."\n\n    private fun writeReplace(): Any = InitializedLazyImpl(value)\n}\n\n\ninternal class InitializedLazyImpl<out
T>(override val value: T) : Lazy<T>, Serializable {\n    override fun isInitialized(): Boolean = true\n\n    override
fun toString(): String = value.toString()\n}\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin

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```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("NumbersKt")\npackage  
kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n *\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public expect fun Int.countOneBits(): Int\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("1.3")\n * @ExperimentalStdlibApi\n * public expect fun Int.countLeadingZeroBits(): Int\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("1.3")\n * @ExperimentalStdlibApi\n * public expect fun Int.countTrailingZeroBits(): Int\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("1.3")\n * @ExperimentalStdlibApi\n * public expect fun Int.takeHighestOneBit(): Int\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("1.3")\n * @ExperimentalStdlibApi\n * public expect fun Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n *\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 [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n *\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\n * public 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 *\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("1.3")\n * @ExperimentalStdlibApi\n * public 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("1.3")\n * @ExperimentalStdlibApi\n * public 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("1.3")\n * @ExperimentalStdlibApi\n * public 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("1.3")\n * @ExperimentalStdlibApi\n * public 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("1.3")\n * @ExperimentalStdlibApi\n * public 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("1.3")\n * @ExperimentalStdlibApi\n * public 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 *\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("1.3")\n * @ExperimentalStdlibApi\n * public 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 *\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
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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("1.3")\n @ExperimentalStdlibApi\n public 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("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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, or zero, if this number is zero.
\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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, or zero, if this number is zero.
\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public 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. 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("1.3")\n @ExperimentalStdlibApi\n public fun Byte.rotateLeft(bitCount: Int): Byte = (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n **\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits. 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("1.3")\n @ExperimentalStdlibApi\n public fun Byte.rotateRight(bitCount: Int): Byte = (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n **\n * Counts the number of set bits in the binary representation of this [Short] number.
\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\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("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public inline fun Short.countLeadingZeroBits(): Int = (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\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("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n **\n * Returns a number having a single bit set in the position of the most significant set bit of this [Short] number, or zero, if this number is zero.
\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public inline`

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fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\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("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public inline
fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\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("1.3")\n @ExperimentalStdlibApi\n public 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("1.3")\n @ExperimentalStdlibApi\n public 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 @package kotlin\n @import
kotlin.internal.RequireKotlin\n @import
kotlin.internal.RequireKotlinVersionKind\n @kotlin.internal.InlineOnly\n @SinceKotlin("1.2")\n @Suppress("IN
VISIBLE_MEMBER", "INVISIBLE_REFERENCE")\n @RequireKotlin("1.2.30", level =
DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n public 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 @file:kotlin.jvm.JvmName("TuplesKt")\n @package
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 * \n public 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, $second"\n }\n\n/**\n * Creates a tuple of type [Pair] from this and [that].\n * \n * This
can be useful for creating [Map] literals with less noise, for example:\n * @sample
samples.collections.Maps.instantiation.mapFromPairs\n * \n public infix fun <A, B> A.to(that: B): Pair<A, B> =
Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n * \n public
fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n * Represents a triad of values\n * \n * There is
no meaning attached to values in this class, it can be used for any purpose.\n * Triple exhibits value semantics, i.e.
two triples are equal if all three components are equal.\n * \n * An example of decomposing it into values:\n * @sample
samples.misc.Tuples.tripleDestructuring\n * \n * @param A type of the first value.\n * @param B
type of the second value.\n * @param C type of the third value.\n * @property first First value.\n * @property
second Second value.\n * @property third Third value.\n * \n public data class Triple<out A, out B, out C>(\n
public val first: A,\n     public val second: B,\n     public val third: C\n ) : Serializable {\n\n     /**\n
Returns string representation of the [Triple] including its [first], [second] and [third] values.\n     *\n     public override fun
toString(): String = "$first, $second, $third"\n }\n\n/**\n * Converts this triple into a list.\n * @sample

```

```

samples.misc.Tuples.tripleToList\n *\npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second,
third)\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//
Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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  override fun isEmpty(): Boolean = first > last\n\n  override
fun equals(other: Any?): Boolean =\n    other is UIntRange && (isEmpty() && other.isEmpty()) ||\n    first
== other.first && last == other.last)\n\n  override fun hashCode(): Int =\n    if (isEmpty()) -1 else (31 *
first.toInt() + last.toInt())\n\n  override fun toString(): String = "$first..$last"\n\n  companion object {\n    /**
An empty range of values of type UInt. *\n    public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE,
UInt.MIN_VALUE)\n  }\n}\n\n/**\n * A progression
of values of type `UInt`.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic open class
UIntProgression(\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
== 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:
UInt = start\n\n  /**\n   * The last element in the progression.\n   *\n  public val last: UInt =
getProgressionLastElement(start, endInclusive, step)\n\n  /**\n   * The step of the progression.\n   *\n  public
val step: Int = step\n\n  override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step)\n\n  /**
Checks if the progression is empty. *\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
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 = 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 the [rangeStart] value and goes toward the
[rangeEnd] value not excluding it, with the specified [step].\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:
UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n  }\n}\n\n/**\n * An iterator over a progression of values of type `UInt`.\n * @property step the number by which the value is
incremented on each step.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\nprivate class
UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {\n  private val finalElement = last\n
private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n  private val step = step.toInt() // 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 nextUInt(): UInt {\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 2010-2019 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// Auto-generated
file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/**\n * An iterator over a sequence of values of type `UByte`.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic abstract class UByteIterator : Iterator<UByte>
{\n  override final fun next() = nextUByte()\n\n  /** Returns the next value in the sequence without boxing. *\n  public abstract fun nextUByte(): UByte\n}\n\n/**\n * An iterator over a sequence of values of type `UShort`.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic abstract class UShortIterator : Iterator<UShort>
{\n  override final fun next() = nextUShort()\n\n  /** Returns the next value in the sequence without boxing. *\n

```

```

public abstract fun nextUShort(): UShort {
    override fun next(): UShort = nextUShort()
}

public abstract class UIntIterator : Iterator<UInt> {
    override fun next(): UInt = nextUInt()
}

public abstract class ULongIterator :
    Iterator<ULong> {
    override fun next(): ULong = nextULong()
}

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that can be found in the license/LICENSE.txt file.

package
kotlin.ranges
import kotlin.internal.*

* A range of values of type `ULong`.
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public
class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1),
    ClosedRange<ULong> {
    override val start: ULong get() = first
    override val endInclusive: ULong get() = last
    override fun contains(value: ULong): Boolean = first <= value && value <= last
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is ULongRange &&
        (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr
        32)).toInt())
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty
        range of values of type ULong.
        public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE,
        ULong.MIN_VALUE)
    }
}

* A progression of values of
type `ULong`.
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public open class
ULongProgression(
    start: ULong,
    endInclusive: ULong,
    step: Long) :
    Iterable<ULong> {
    init {
        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be
        non-zero.")
        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater
        than Long.MIN_VALUE to avoid overflow on negation.")
    }
    /**
    * The first element in the
    progression.
    public val first: ULong = start
    /**
    * The last element in the progression.
    public val last: ULong = getProgressionLastElement(start, endInclusive, step)
    /**
    * The step of the
    progression.
    public val step: Long = step
    override fun iterator(): ULongIterator =
    ULongProgressionIterator(first, last, step)
    /** Checks if the progression is empty.
    public open fun
    isEmpty():
    Boolean = if (step > 0) first > last else first < last
    override fun equals(other: Any?): Boolean =
        other is
        ULongProgression && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last &&
            step == other.step)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * (first xor (first shr
        32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())
    override fun toString(): String =
    if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"
    companion object {
        /**
        * Creates ULongProgression within the specified bounds of a closed range.
        * The progression
        starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].
        * In order to go backwards the [step] must be negative.
        * [step] must be greater than
        `Long.MIN_VALUE` and not equal to
        zero.
        public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long):
        ULongProgression = ULongProgression(rangeStart, rangeEnd, step)
    }
}

* An iterator over a
progression of values of type `ULong`.
* @property step the number by which the value is incremented on each
step.
@SinceKotlin("1.3")@ExperimentalUnsignedTypes
private class ULongProgressionIterator(first:
    ULong, last: ULong, step: Long) : ULongIterator() {
    private val finalElement = last
    private var hasNext:
    Boolean = if (step > 0) first <= last else first >= last
    private val step = step.toULong() // use 2-complement math
for negative steps
    private var next = if (hasNext) first else finalElement
    override fun hasNext(): Boolean =
    hasNext
    override fun nextULong(): ULong {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        }
    }
}

```

```

    } else {
        next += step
    }
    return value
}

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 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.math

/**
 * Returns the
 smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a:
UInt, b: UInt): UInt {
    return minOf(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a:
ULong, b: ULong): ULong {
    return minOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a:
UInt, b: UInt): UInt {
    return maxOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun max(a: ULong, b: ULong): ULong {
    return maxOf(a, b)
}

"/**
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 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("UNumbersKt")
package kotlin

/**
 * Counts the number of set bits in the
 binary representation of this [UInt] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UInt.countOneBits(): Int = toInt().countOneBits()

/**
 * Counts the number of consecutive
 most significant bits that are zero in the binary representation of this [UInt] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt]
 number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()

/**
 * Returns a number
 having a single bit set in the position of the most significant set bit of this [UInt] number,
 * or zero, if this number
 is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()

/**
 * Returns a
 number having a single bit set in the position of the least significant set bit of this [UInt] number,
 * or zero, if this
 number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun
UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()

/**
 * Rotates the binary representation
 of this [UInt] 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 [UInt.SIZE_BITS] (32) returns the same number, or more
 generally
 * `number.rotateLeft(n) == number.rotateLeft(n % 32)`
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()

/**
 * Rotates
 the binary representation of this [UInt] number right by the specified [bitCount] number of bits.
 * The least
 significant bits pushed
 out from the right side reenter the number as the most significant bits on the left side.
 * Rotating the number
 right by a negative bit count is the same as rotating it left by the negated bit count:
 * `number.rotateRight(-n) ==
 number.rotateLeft(n)`
 * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more
 generally
 * `number.rotateRight(n) == number.rotateRight(n % 32)`
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl

```

```

y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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 *\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 [ULong.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic
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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic 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
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\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("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\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
*\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("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\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
*\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 [UByte.SIZE_BITS] (8) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UByte.rotateRight(bitCount:
Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n\n/**\n * Counts the number of set bits in the binary
representation of this [UShort] number.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\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("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\n\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("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\n\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("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\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("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\n\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 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("1.3")\n @ExperimentalStdlibApi\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnl
y\n public inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\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

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*\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 * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\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:UseExperimental(ExperimentalUnsignedTypes::class)\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\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 * 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 * - 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\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 * - 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\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 2010-2018 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("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 */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\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\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\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

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for number to string conversion.\n *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\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 * @throws NumberFormatException if the string is not a valid
representation of a number.\n *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun
String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed
[UByte] 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 *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun String.toUByte(radix:
Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun String.toUShort(): UShort =
toUShortOrNull() ?: numberFormatError(this)\n\n/**\n
* Parses the string as a [UShort] 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 *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun
String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the
string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun
String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] 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
*^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun String.toUInt(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun String.toULong(): ULong =
toULongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] 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
*^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun String.toULong(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatError(this)\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\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 *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\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 * @throws IllegalArgumentException when
[radix] is not a valid radix for string to number conversion.\n
*^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\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 *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\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 * @throws IllegalArgumentException when [radix] is
not a valid radix for string to number conversion.\n
*^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\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 *^@SinceKotlin(\\1.3\\)\n@ExperimentalUnsignedTypes\npublic fun

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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("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUIntOrNull(radix:
Int): UInt? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val limit:
UInt = UInt.MAX_VALUE\n    val start: Int\n\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\n    val limitForMaxRadix =
119304647u // limit / 36\n\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\n        if (digit < 0) return null\n
        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul =
limit / uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            }
else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has
happened\n    }\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 * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length
== 0) return null\n\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n\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\n\n    val limitForMaxRadix = 512409557603043100uL // limit / 36\n\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\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul ==
limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow
has happened\n    }\n\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@file:Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport
kotlin.internal.RequireKotlin\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\n * the [OptIn] annotation, e.g.\n * `@OptIn(ExperimentalUnsignedTypes::class)`\n * or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes`\n * compiler option is given.\n *\n * It's recommended to propagate the experimental status to the API that depends on
unsigned types by annotating it with this annotation.\n */\n\n@Suppress("DEPRECATION")\n@Experimental(level
= Experimental.Level.WARNING)\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS,
ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER,
CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER,
TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalUnsignedTypes\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("MathKt")\n\npackage

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kotlin.math\n\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/** Ratio of the
circumference of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin("1.2")\npublic const val PI:
Double = 3.141592653589793\n\n/** Base of the natural logarithms, approximately 2.71828.
*/\n@SinceKotlin("1.2")\npublic
const val E: Double = 2.718281828459045\n\n// region ===== Double Math
=====
\n\n/** Computes the sine of the angle [x] given in
radians.\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun
sin(x: Double): Double\n\n/** Computes the cosine of the angle [x] given in radians.\n * Special cases:\n * -
`cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun cos(x: Double): Double\n\n/**
Computes the tangent of the angle [x] given in radians.\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n
*/\n@SinceKotlin("1.2")\npublic expect fun tan(x: Double): Double\n\n/** Computes the arc sine of the value
[x];\n * the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n * Special cases:\n * -
`asin(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun asin(x: Double):
Double\n\n/** Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from
 $0.0$  to  $\pi$  radians.\n * Special cases:\n * - `acos(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`\n
*/\n@SinceKotlin("1.2")\npublic expect fun acos(x: Double): Double\n\n/** Computes the arc tangent of the
value [x];\n * the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n * Special cases:\n * -
`atan(NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun atan(x: Double): Double\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  $\pi$ 
radians.\n * Special cases:\n * - `atan2(0.0, 0.0)` is  $0.0$ \n * - `atan2(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  $x \neq 0$ \n * - `atan2(-Inf, x)` is  $-\pi/2$  for finite  $x \neq 0$ \n * - `atan2(NaN, x)` and
`atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun atan2(y: Double, x: Double):
Double\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:
Double): Double\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:
Double): Double\n\n/** Computes the hyperbolic tangent of the value [x].\n
*\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: Double): Double\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: Double): Double\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: Double): Double\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: Double): Double\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: Double, y: Double): Double\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: Double): Double\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  $+Inf$ 

```

* `-exp(-Inf)` is `0.0`.
`public expect fun exp(x: Double): Double`
 Computes `exp(x) - 1`. This function can be implemented to produce more precise result for `[x]` near zero.
 Special cases:
`-expm1(NaN)` is `NaN`
`-expm1(+Inf)` is `+Inf`
`-expm1(-Inf)` is `-1.0`
 @see `[exp]` function.
`public expect fun expm1(x: Double): Double`
 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 <= 0` or `b == 1.0`
`-log(+Inf, +Inf)` is `NaN`
`-log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`
`-log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`
 See also logarithm functions for common fixed bases: `[ln]`, `[log10]` and `[log2]`.
`public expect fun log(x: Double, base: Double): Double`
 Computes the natural logarithm (base `E`) of the value `[x]`.
 Special cases:
`-ln(NaN)` is `NaN`
`-ln(x)` is `NaN` when `x < 0.0`
`-ln(+Inf)` is `+Inf`
`-ln(0.0)` is `-Inf`
`public expect fun ln(x: Double): Double`
 Computes the common logarithm (base 10) of the value `[x]`.
 @see `[ln]` function for special cases.
`public expect fun log10(x: Double): Double`
 Computes the binary logarithm (base 2) of the value `[x]`.
 @see `[ln]` function for special cases.
`public expect fun log2(x: Double): Double`
 Computes `ln(x + 1)`.
 This function can be implemented to produce more precise result for `[x]` near zero.
 Special cases:
`-ln1p(NaN)` is `NaN`
`-ln1p(x)` is `NaN` where `x < -1.0`
`-ln1p(-1.0)` is `-Inf`
`-ln1p(+Inf)` is `+Inf`
 @see `[ln]` function
 @see `[expm1]` function
`public expect fun ln1p(x: Double): Double`
 Rounds the given value `[x]` to an integer towards positive infinity.
 @return the smallest double value that is greater than or equal to the given value `[x]` and is a mathematical integer.
 Special cases:
`-ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
`public expect fun ceil(x: Double): Double`
 Rounds the given value `[x]` to an integer towards negative infinity.
 @return the largest double 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.
`public expect fun floor(x: Double): Double`
 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.
`public expect fun truncate(x: Double): Double`
 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.
`public expect fun round(x: Double): Double`
 Returns the absolute value of the given value `[x]`.
 Special cases:
`-abs(NaN)` is `NaN`
 @see `absoluteValue` extension property for `[Double]`
`public expect fun abs(x: Double): Double`
 Returns the sign of the given value `[x]`:
`-1.0` if the value is negative,
`0` if the value is zero,
`1.0` if the value is positive
 Special case:
`-sign(NaN)` is `NaN`
`public expect fun sign(x: Double): Double`
 Returns the smaller of two values.
 If either value is `NaN`, then the result is `NaN`.
`public expect fun min(a: Double, b: Double): Double`
 Returns the greater of two values.
 If either value is `NaN`, then the result is `NaN`.
`public expect fun max(a: Double, b: Double): Double`
 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
`public expect fun Double.pow(x: Double): Double`
 Raises this value to the integer power `[n]`.
 See the other overload of `[pow]` for details.
`public expect fun Double.pow(n: Int): Double`
 Returns the absolute value of this value.
 Special cases:
`-NaN.absoluteValue` is `NaN`
 @see `abs` function
`public expect val Double.absoluteValue: Double`
 Returns the sign of this value:
`-1.0` if the value is negative,
`0` if the value is

zero, ulp 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 $+\text{Inf}$ when x is $+\text{Inf}$ or $-\text{Inf}$
 $0.0.ulp$ 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
 $\text{x.nextTowards(x)} == \text{x}$
 * `@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:
 $\text{x.roundToInt()} == \text{Int.MAX_VALUE}$ when $\text{x} > \text{Int.MAX_VALUE}$
 $\text{x.roundToInt()} == \text{Int.MIN_VALUE}$ when $\text{x} < \text{Int.MIN_VALUE}$
 * @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:
 $\text{x.roundToLong()} == \text{Long.MAX_VALUE}$ when $\text{x} > \text{Long.MAX_VALUE}$
 $\text{x.roundToLong()} == \text{Long.MIN_VALUE}$ when $\text{x} < \text{Long.MIN_VALUE}$
 * @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: $\text{sin(NaN|+Inf|-Inf)}$ is NaN
 * `@SinceKotlin("1.2")` public expect fun sin(x: Float): Float
 * Computes the cosine of the angle [x] given in radians.
 * Special cases: $\text{cos(NaN|+Inf|-Inf)}$ is NaN
 * `@SinceKotlin("1.2")` public expect fun cos(x: Float): Float
 * Computes the tangent of the angle [x] given in radians.
 * Special cases: $\text{tan(NaN|+Inf|-Inf)}$ 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 $-\text{PI}/2$ to $\text{PI}/2$ radians.
 * Special cases: asin(x) is NaN , when $\text{abs(x)} > 1$ or x is NaN
 * `@SinceKotlin("1.2")` public expect fun asin(x: 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 $\text{abs(x)} > 1$ 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 $-\text{PI}/2$ to $\text{PI}/2$ radians.
 * Special cases: atan(NaN) is NaN
 * `@SinceKotlin("1.2")` public expect fun atan(x: Float): Float
 * Returns the angle θ of the polar coordinates (r, θ) 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 $-\text{PI}$ to PI radians.
 * Special cases:
 $\text{atan2}(0.0, 0.0)$ is 0.0
 $\text{atan2}(0.0, x)$ is 0.0 for $x > 0$ and PI for $x < 0$
 $\text{atan2}(-0.0, x)$ is -0.0 for $x > 0$ and $-\text{PI}$ for $x < 0$
 $\text{atan2}(y, +\text{Inf})$ is 0.0 for $0 < y < +\text{Inf}$
 $\text{atan2}(y, -\text{Inf})$ is PI for $0 < y < +\text{Inf}$ and $-\text{PI}$ for $-\text{Inf} < y < 0$
 $\text{atan2}(y, 0.0)$ is $\text{PI}/2$ for $y > 0$ and $-\text{PI}/2$ for $y < 0$
 $\text{atan2}(+\text{Inf}, x)$ is $\text{PI}/2$ for finite x
 $\text{atan2}(-\text{Inf}, x)$ is $-\text{PI}/2$ for finite x
 $\text{atan2}(\text{NaN}, x)$ and $\text{atan2}(y, \text{NaN})$ is NaN
 * `@SinceKotlin("1.2")` public expect fun atan2(y: Float, x: Float): Float
 * Computes the hyperbolic sine of the value [x].
 * Special cases: sinh(x) is NaN if x is NaN

```

`sinh(NaN)` is `NaN` * - `sinh(+Inf)` is `+Inf` * - `sinh(-Inf)` is `-Inf` *
@SinceKotlin("1.2")\npublic
expect fun sinh(x: Float): Float * Computes the hyperbolic cosine of the value [x].
Special cases:
* - `cosh(NaN)` is `NaN` * - `cosh(+Inf)` is `+Inf` *
@SinceKotlin("1.2")\npublic expect fun cosh(x:
Float): Float * 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")\npublic expect fun
tanh(x: Float): Float * 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")\npublic expect fun asinh(x: Float): Float * 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` * - `acosh(x)` is `NaN` when `x < 1` * - `acosh(+Inf)` is `+Inf`
@SinceKotlin("1.2")\npublic expect fun acosh(x: Float): Float * Computes the inverse hyperbolic
tangent of the value [x].
The returned value is `y` such that `tanh(y) == x`.
Special cases:
* - `tanh(NaN)` is `NaN` * - `tanh(x)` is `NaN` when `x > 1` or `x < -1` * - `tanh(1.0)` is `+Inf` * - `tanh(-
1.0)` is `-Inf` *
@SinceKotlin("1.2")\npublic expect fun atanh(x: Float): Float * Computes `sqrt(x^2 +
y^2)` without intermediate overflow or underflow.
Special cases:
* - returns `+Inf` if any of arguments
is infinite
* - returns `NaN` if any of arguments is `NaN` and the other is not infinite
@SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float * 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")\npublic expect fun sqrt(x: Float): Float * Computes Euler's number `e` raised to
the power of the value [x].
Special cases:
* - `exp(NaN)` is `NaN` * - `exp(+Inf)` is `+Inf` * -
`exp(-Inf)` is `0.0` *
@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float * Computes `exp(x)
- 1`
Special cases:
* - `expm1(NaN)` is `NaN` * - `expm1(+Inf)` is `+Inf` * - `expm1(-Inf)` is `-1.0` *
@see
[exp] function.
@SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float * 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 <= 0` or `b == 1.0`
* - `log(+Inf, +Inf)` is `NaN`
* - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`
* - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`
* See also logarithm functions for common fixed bases: [ln], [log10] and [log2].
@SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float * Computes the natural
logarithm (base `E`) of the value [x].
Special cases:
* - `ln(NaN)` is `NaN`
* - `ln(x)` is `NaN` when
`x < 0.0`
* - `ln(+Inf)` is `+Inf`
* - `ln(0.0)` is `-Inf`
@SinceKotlin("1.2")\npublic expect fun ln(x:
Float): Float * Computes the common logarithm (base 10) of the value [x].
@see [ln] function for
special cases.
@SinceKotlin("1.2")\npublic expect fun log10(x:
Float): Float * Computes the binary logarithm (base 2) of the value [x].
@see [ln] function for
special cases.
@SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float * Computes `ln(a +
1)`.
Special cases:
* - `ln1p(NaN)` is `NaN`
* - `ln1p(x)` is `NaN` where `x < -1.0`
* - `ln1p(-1.0)` is `-Inf`
* - `ln1p(+Inf)` is `+Inf`
@see [ln] function
@see [expm1] function
@SinceKotlin("1.2")\npublic
expect fun ln1p(x: Float): Float * 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:
* - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.
@SinceKotlin("1.2")\npublic 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")\npublic
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 $+\infty$ or $-\infty$ or already a mathematical integer.

`truncate(x: Float): Float` Rounds the given value [x] towards the closest integer with ties rounded towards even integer.

`round(x): Float` Special cases: `round(x)` is `x` where `x` is `NaN` or $+\infty$ or $-\infty$ or already a mathematical integer.

`abs(x: Float): Float` Returns the absolute value of the given value [x].

`sign(x: Float): Float` Returns the sign of the given value [x]: `-1.0` if the value is negative, `0` if the value is zero, `1.0` if the value is positive.

`min(a: Float, b: Float): Float` Returns the smaller of two values. If either value is `NaN`, then the result is `NaN`.

`max(a: Float, b: Float): Float` Returns the greater of two values. If either value is `NaN`, then the result is `NaN`.

`pow(x: Float, n: Int): Float` Raises this value to the power [n].

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.

`Float.absoluteValue: Float` Returns the absolute value of this value.

Special cases: `NaN.absoluteValue` is `NaN`.

`Float.sign: Float` Returns the sign of this value: `-1.0` if the value is negative, `0` if the value is zero, `1.0` if the value is positive.

Special case: `NaN.sign` is `NaN`.

`Float.withSign(sign: Float): 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.

`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`.

`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`.

`Float.roundToLong(): Long` 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].

`abs(n: Int): Int` Returns the smaller of two values.

`min(a: Int, b: Int): Int` Returns the greater of two values.

`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.

`Int.absoluteValue: Int` Returns the sign of this value: `-1` if the value is negative, `0` if the value is zero, `1` if the value is positive.

`Int.sign: Int` Returns the absolute value of the given value [n].

Special cases: `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow.

@see `absoluteValue` extension property for [Long].

`abs(n: Long): Long` Returns the

smaller of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun min(a: Long, b: Long): Long\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 * 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")\npublic expect val Long.absoluteValue: Long\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 expect val Long.sign: Int\n\n\n// endregion\n",null,null,null,null,null,null,null,null,null], "names": [], "mappings": "AAWC,CAXA,yB;EACG,IAAI,OA AO,MAAO,KAAI,UAAW,IAAG,MAAM,IAA1C,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,E AAwB,OAAxB,C;SAEL,IAAI,OAAO,OAAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;IAGP,IA AI,OAAQ,GAAE,E;IACd,OAAO,CAAC,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAO,kB;EACJ,IAAI,IAAI,M;EC PZ,MAAM,eAAgB,GAAE,a;IACpB,OAAoD,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,I AAG,CAAC,OAAQ,KAAI,c;G;EAGID,MAAM,aAAc,GAAE,a;IACIB,OAAO,CAAE,YAAW,U;G;EAGxB,MAA M,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,WAAY,IAAG,CAAC,OAAQ,KAAI,W;G;EAGpD,MAAM,WAA Y,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,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAA O,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,W;G;EAG5C,MAAM,QAAS,GAAE,a;IACb,O AAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,CAAC,O;G;EAGjC,MAAM,WAAY,GAAE,a;IACbB,OA AO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,WAAY,OAAO,CAAC,CAAD,C;G;EAGjD,MAAM,cAAe,GAAE, a;IACnB,IAAI,WAAY,MAAM,YAAI,CAAC,CAAD,CAAI,GAAE,MAAM,aAAR,GAAwB,MAAM,S;IACnE,O AAO,GAAI,GAAE,KAAK,UAAU,IAAI,KAAK,CAAC,CAAD,EAAI,a;MAAc,OAAO,QAAQ,CAAC,CAAD,C;K AAjC,CAAwC,KAAK,CAAC,IAAD,CAAO,GAAE,G;G;EAG/F,MAAM,kBAAmB,GAAE,e;IACvB,OAAO,MAA M,OAAO,YAAI,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,YAAa,GAAE,gB;IACjB,IAAI,CAAE,KAAI,CA AV,C;MACI,OAAO,I;KAEX,IAAI,CAAC,MAAM,WAAY,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,CA AC,OAA3C,C;MACI,OAAO,K;KAGX,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,CAAC,OAArB,EAA8B,CAAE,G AAE,CAAIC,EAAqC,CAAC,EAAtC,C;MACI,IAAI,CAAC,MAAM,OAAO,CAAC,CAAC,CAAC,CAAD,CAAF, EAAO,CAAC,CAAC,CAAD,CAAR,CAAI,B,C;QACI,OAAO,K;;IAGf,OAAO,I;G;EAGX,MAAM,gBAAiB,GAAE ,gB;IACrB,OAAO,MAAM,OAAO,YAAI,sBAAsB,CAAC,CAAD,EAAI,CAAJ,C;G;EAG1D,MAAM,cAAe,GAA E,e;IACnB,IAAI,SAAS,C;IACb,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,GAAG,OAAvB,EAAGC,CAAE,GAAE,C AApC,EAAuC,CAAC,EAAxC,C;MACI,MAAO,GAAqB,CAAjB,EAAG,GAAE,MAAO,GAAE,CAAG,IAAE,MA AM,SAAS,CAAC,GAAG,CAAC,CAAD,CAAJ,CAAU,GAAE,C;;IAE7D,OAAO,M;G;EAGX,MAAM,kBAAmB, GAAE,e;IACvB,OAAO,MAAM,OAAO,YAAI,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,mBAAoB,GAAE, iB;IACxB,KAAK,KAAK,CAAC,MAAM,gBAAP,C;G;ECIFd,MAAM,eAAgB,GAAE,mB;IACpB,CAAC,aAAc,G AAE,I;IACjB,OAAO,C;G;EAGX,MAAM,uBAAwB,GAAE,4C;IAC5B,MAAM,IAAK,GAAE,M;IACb,MAAM,IA AK,GAAE,M;IACb,MAAM,aAAc,GAAE,I;IACtB,OAAO,mBAAmB,CAAC,MAAD,EAAS,MAAT,EAAiB,6BA A6B,CAAC,UAAD,CAA9C,C;G;EAG9B,iD;IACI,GAAG,WAAY,GAAE,sBAAsB,CAAC,OAAO,MAAO,KAAI, UAAW,GAAE,KAAK,QAAP,GAakB,KAAK,UAArD,C;IACvC,GAAG,YAAa,GAAE,G;IACIB,OAAO,G;G;EA GX,IAAI,gCAAgC,CACHc,UACa,QAAS,IAAT,wBAAqC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,kB;GADvB, CADb,aAIe,QAAS,IAAT,wBAAqC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAJf,CADgC,EAShC,U ACa,QAAS,IAAT,wBAAqC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,kB;GADvB,CADb,aAIe,QAAS,IAAT,wBA AqC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAJf,CATgC,C;EAmBpC,uC;IACI,IAAI,KAAK,MAA O,KAAI,IAApB,C;MACI,KAAK,MAAO,GAAE,aACE,CAAC,KAAK,qBAAqB,EAA3B,CADF,aAEC,IAFD,aAG C,EAHD,cAIE,EAJF,SAKH,EALG,iBAMK,EANL,C;KASIB,OAAO,KAAK,M;G;EChDhB,MAAM,QAAS,GAA E,a;IACb,OAAoB,CAAZ,CAAE,GAAE,KAAQ,KAAg,EAAG,IAAG,E;G;EAGjC,MAAM,OAAQ,GAAE,a;IACZ, OAAkB,CAAV,CAAE,GAAE,GAAM,KAAg,EAAG,IAAG,E;G;EAG/B,MAAM,OAAQ,GAAE,a;IACZ,OAAO,C AAE,GAAE,K;G;EAGf,MAAM,aAAc,GAAE,a;IACIB,OAAO,CAAE,YAAW,MAAM,KAAm,GAAE,CAAF,GA AM,MAAM,KAAK,WAAY,CAAC,CAAD,C;G;EAGhE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,

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P,U;UADP,YPsoRe,WotoRH,WpsoRwB,GOtoRxB,C;UACL,IAAI,aAAJ,C;YACH,aPooRuC,gB;YAA5B,WOnoR
X,aPmoRgC,GOnoRhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgoRA,iB;UACA,IAAK,WatRyD,cAsRrD,CAAE,
OAaf,CAAJ,C;;QAtRT,OAwRO,W;O;KAISX,C;uFAaA,yB;MAAA,wE;MAwRA,+D;MAxRA,yD;QAUW,kBAA
U,oB;QAwRD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzRiD,WAYRvC,CAAY,OAAZ,C;UOtpRP,U;UADP,YP
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GOrpRhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPkpRA,iB;UACA,IAAK,WA3RyD,cA2RrD,CAAE,OAaf,CAAJ,
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,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA9RiD,WA8RvC,CAAY,OAAZ,C;UOxqRP,U;UADP,YP0qRe,W01qR
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AS,MAAT,C;YACA,e;;YAEA,c;;UPoqRA,iB;UACA,IAAK,WahSyD,cAgSrD,CAAE,OAaf,CAAJ,C;;QAhST,O
AkSO,W;O;KA5SX,C;uFAaA,yB;MAAA,wE;MAkSA,+D;MAISA,yD;QAUW,kBAAU,oB;QAKSD,Q;QAAhB,iD;
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CA,e;;YAEA,c;;UPsrRA,iB;UACA,IAAK,WArSyD,cAqSrD,CAAE,OAaf,CAAJ,C;;QArST,OAuSO,W;O;KAjTX,
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wsRA,iB;UACA,IAAK,WA1SyD,cA0SrD,CAAE,OAaf,CAAJ,C;;QA1ST,OA4SO,W;O;KAfTX,C;uFAaA,yB;MA
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D;MAjTA,yD;QAUW,kBAAU,oB;QaiTD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAITiD,WakTvC,CAAY,OA
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,C;UACL,IAAI,aAAJ,C;YACH,aP0rRuC,gB;YAA5B,WOzrRX,aPyrRgC,GOzrRhC,EAAS,MAAT,C;YACA,e;;Y
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,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YA
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O,W;O;KATVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA6UA,Q;QAAb,iD;UA
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C;QAOW,kBAaA,eAAa,gBAAb,C;QakIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAy,WAnIw
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O,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,IAA
I,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MAAhB,OA
AgB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAG
X,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAA
wB,OAAO,O;;MACrD,OAAO,I;K;2FAGX,yB;MAkwFI,8D;MA1wFJ,iD;QAoe,oBAAS,C;QAAT,S;UAAc,gBA2v
FT,cAAR,iBAAQ,C;SA3vFhB,OAAO,OAA sC,sBA AI,KA AJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAU
A,yB;MAGwFI,8D;MAhwFJ,iD;QAoe,oBAAS,C;QAAT,S;UAAc,gBAyvFT,cAAR,iBAAQ,C;SAzvFhB,OAAO,O
AAsC,sBA AI,KA AJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAUA,yB;MA8vFI,8D;MA9vFJ,iD;QAoe,oB
AAS,C;QAAT,S;UAAc,gBAuvFT,cAAR,iBAAQ,C;SAvvFhB,OAAO,OAA sC,sBA AI,KA AJ,CAAtC,GAAsD,aA
Aa,KAAb,C;O;KAPjE,C;2FAUA,yB;MA4vFI,8D;MA5vFJ,iD;QAoe,oBAAS,C;QAAT,S;UAAc,gBAqvFT,cAAR,
iBAAQ,C;SArvFhB,OAAO,OAA sC,sBA AI,KA AJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;IAUA,wC;MAME
,oBAAS,C;MAAT,S;QAAC,gBAotFT,gBAAR,iBAAQ,C;OAptFhB,OAAO,OAA sC,sBA AI,KA AJ,CAAtC,GAAsD
,I;K;IAGjE,wC;MAME,oBAAS,C;MAAT,S;QAAC,gBAmtFT,gBAAR,iBAAQ,C;OAntFhB,OAAO,OAA sC,sBA AI
,KA AJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAME,oBAAS,C;MAAT,S;QAAC,gBAktFT,gBAAR,iBAAQ,C;OAltFhB,

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,iBAAQ,EAAQ,O9BrlBc,K8BqlBtB,C;O;KAPnB,C;iGAUA,yB;MAAA,sC;M/B5eA,6B;M+B4eA,0BAOGC,yB;Q/
BnfhC,6B;e+BmfgC,6B;UAAA,qB;YAAE,yB/BzeK,c+ByeK,E/BzeL,C+ByeL,C;W;S;OAAF,C;MAPhC,uC;QAO
mB,kBAAR,iB;QAAQ,uB;;UICswBf,0D;YACI,IkCvwb0B,U/BzeK,cHgvCjB,YAAK,KAAL,CGhvCiB,C+ByeL,C
lCuwB1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QkC3wBP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MFv
eA,+B;MEueA,0BAOGC,yB;QF9ehC,+B;eE8egC,6B;UAAA,qB;YAAE,yBFpeQ,eEoeE,EFpeF,CEoeR,C;W;S;OA
AF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UICwwBf,0D;YACI,IkCzwB0B,UFpeQ,ehC6uCpB,YAAK,KA
AL,CgC7uCoB,CEoeR,CiCwB1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QkC7wBP,0B;O;KAPJ,C;iG
AUA,yB;MAAA,sC;MhCliBA,+B;MgCkiBA,0BAOGC,yB;QhCziBhC,+B;egCyiBgC,6B;UAAA,qB;YAAE,yBhC/
hBQ,egC+hBE,EhC/hBF,CgC+hBR,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UIC0tBf,0D;Y
ACI,IkC3tB0B,UhC/hBQ,eF0vCpB,YAAK,KAAL,CE1vCoB,CgC+hBR,CiC2tB1B,C;cACI,sBAAO,K;cAAP,wB;;
UAGR,sBAAO,E;;;QkC/tBP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;M9B/hBA,iC;M8B+hBA,0BAOGC,yB;Q9BtiB
hC,iC;e8BsiBgC,6B;UAAA,qB;YAAE,yB9B5hBW,gB8B4hBD,E9B5hBC,C8B4hBX,C;W;S;OAAF,C;MAPhC,uC
;QAOmB,kBAAR,iB;QAAQ,uB;;UIC4tBf,0D;YACI,IkC7tB0B,U9B5hBW,gBjyvCvB,YAAK,KAAL,CiZvCuB,C8
B4hBX,CiC6tB1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QkCjuBP,0B;O;KAPJ,C;+FAUA,yB;MAAA,
sC;MIC60BA,0D;MAAA,+C;MGj2CA,6B;M+BohBA,yBAO+B,yB;Q/B3hB/B,6B;e+B2hB+B,6B;UAAA,qB;YA
AE,yB/BjhBM,c+BihBI,E/BjhBJ,C+BihBN,C;W;S;OAAF,C;MAP/B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UIC00B
D,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IkC30ByB,U/BjhBM,cH4
1CjB,YAAK,KAAL,CG51CiB,C+BihBN,CiC20BzB,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QkC/0BP,
yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MIC+0BA,0D;MAAA,+C;MgC91CA,+B;ME+gBA,yBAO+B,yB;QFthB/B,
+B;eEshB+B,6B;UAAA,qB;YAAE,yBF5gBS,eE4gBC,EF5gBD,CE4gBT,C;W;S;OAAF,C;MAP/B,uC;QAOmB,k
BAAR,iB;QAAQ,sB;;UIC40BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YA
CV,IkC70ByB,UF5gBS,ehCy1CpB,YAAK,KAAL,CgCz1CoB,CE4gBT,CiC60BzB,C;cACI,qBAAO,K;cAAP,uB;;
UAGR,qBAAO,E;;;QkCj1BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MICiyBA,0D;MAAA,+C;ME32CA,+B;MgC0
kBA,yBAO+B,yB;QhCj1B/B,+B;egCilB+B,6B;UAAA,qB;YAAE,yBhCvkBS,egCukBC,EhCvkBD,CgCukBT,C;W
;S;OAAF,C;MAP/B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UIC8xBD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;U
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zB,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QkCnyBP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MICmyBA,
0D;MAAA,+C;MI12CA,iC;M8BukBA,yBAO+B,yB;Q9B9kB/B,iC;e8B8kB+B,6B;UAAA,qB;YAAE,yB9BpkBY,
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,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IkCjyByB,U9BpkBY,gBjQ2CvB,YA
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J,C;iFAUA,yB;MAAA,4C;M/B5jBA,6B;M+B4jBA,4B;QAQI,O/B1jBmC,c+B0jBpB,KAAR,iBAAQ,C/B1jBoB,C;
O;K+BkjBvC,C;iFAWA,yB;MAAA,4C;MFxjBA,+B;MEwjBA,4B;QAQI,OFtjBsC,eEsjBvB,KAAR,iBAAQ,CFtjB
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C;QAQkB,Q;QAAA,OAAa,SA0+EX,YA1+EF,SA0+EN,QAAQ,CA1+EW,CAAb,W;QAAd,OAAc,cAAAd,C;UAAc
,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,AAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gC
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KAZV,C;iFAeA,yB;MAAA,+C;MAAA,iE;MA0+EI,0D;MAP+EJ,uC;QAQkB,Q;QAAA,OAAa,SA49EX,YA59EF,
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A,+C;MAAA,iE;MA69EI,0D;MA79EJ,uC;QAQkB,Q;QAAA,OAAa,SAq9EX,YAr9EF,SAq9EN,QAAQ,CAr9EW,
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I,0D;MA12EJ,uC;QAOkB,Q;QAAA,OAAa,SAm2EX,YAn2EF,SAm2EN,QAAQ,CAn2EW,CAAb,W;QAAd,OAA
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EnC,OAAO,I;O;KAXX,C;6FAcA,yB;MAAA,+C;MAo2EI,0D;MAp2EJ,uC;QAOkB,Q;QAAA,OAAa,SA61EX,Y
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EnC,OAAO,I;O;KAXX,C;6FAcA,yB;MAAA,+C;MAw1EI,0D;MAx1EJ,uC;QAOkB,Q;QAAA,OAAa,SAi1EX,Y
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,C;O;KATX,C;qFAYA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;IAYA,s
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X,C;K;IAGX,sC;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAL,MAAO,iBA
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yB;MA+KQ,sBAAM,gB;MACN,KAak,gBAAO,QAAP,C;MALT,Y;K;IA8DJ,kC;MAKwD,gBAA7C,qBAAYB,e
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AQ,2B;KAXpB,E;IAAA,0DAaQ,kB;MACI,wBAAW,MAAX,C;K;IAdZ,sF;I+B3C2E,0C;MhC4JhE,Q;MADP,egC
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B,C;;UAGN,UAAIB,uDAaKB,Y;;MAP3B,a;K;IC9BJ,2B;MAEI,MAAM,yBAAqB,OAArB,C;K;IAGV,sB;MAEI,
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,4BAAY,MAAK,KAAL,EAAW,IAAX,EAAiB,IAAjB,C;MADpC,Y;K;IAIA,0C;MAAA,mD;MAAuC,sBAAK,OA
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,Y;K;IACA,+C;MAAA,0D;MAAwC,6BAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG8C,kD;MAA0D,4BAA
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O,K;UAAP,e;SACrB,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UAAM,ImIp/CwD,OnIo/C1C,OmIp/C6C,MAA
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FDA,OAAy,W;O;KAvBhB,C;IA6BA,6C;MArKc,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QAC
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1.624 cxf-rt-transport-http 3.4.4

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1.629 accessors-smart 1.2

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* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/DynamicClassLoader.java
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/Accessor.java
*
/opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/ASMUtil.java

1.630 error_prone_annotations 2.3.4

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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/NoAllocation.java
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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/MustBeClosed.java
*
/opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/FormatString.java
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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
*

/opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CompileTimeConstant.java
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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/DoNotCall.java
*
/opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

1.631 jakarta xml bind api 2.3.3

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1.632 jopt-simple 5.0.4

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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java

* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java

* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java

* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java

* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java

* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java

* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java

*

/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/SimpleOptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Row.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NonOptionArgumentSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecBuilder.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MissingRequiredOptionsException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/KeyValuePair.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java
*

```

/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/IllegalOptionSpecificationException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Strings.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/OptionMissingRequiredArgumentException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/ArgumentAcceptingOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/util/InetAddressConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
*
/opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/BuiltinHelpFormatter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/ReflectionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/HelpFormatter.java

```

1.633 json-smart 2.3

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```

* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONObject.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONNavi.java

```

* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONArray.java
*
/opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAwareEx.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONValue.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/JsonReader.java
*
/opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserMemory.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/CollectionMapper.java
*
/opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/CompressorMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserInputStream.java

```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserByteArray.java
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```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/DefaultMapper.java
```

1.634 cxf-rt-security 3.4.4

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- * javax.annotation:javax.annotation-api
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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

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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

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*

* Abstract: The main routine

*

--*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For `hadoop-common-project/hadoop-common/src/main/native/gtest`

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css

hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css

bootstrap v3.3.6

broccoli-asset-rev v2.4.2

broccoli-funnel v1.0.1

datatables v1.10.8

em-helpers v0.5.13

em-table v0.1.6

ember v2.2.0

ember-array-contains-helper

v1.0.2
ember-bootstrap v0.5.1
ember-cli v1.13.13
ember-cli-app-version v1.0.0
ember-cli-babel v5.1.6
ember-cli-content-security-policy v0.4.0
ember-cli-dependency-checker v1.2.0
ember-cli-htmlbars v1.0.2
ember-cli-htmlbars-inline-precompile v0.3.1
ember-cli-ic-ajax v0.2.1
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ember-cli-jquery-ui v0.0.20
ember-cli-qunit v1.2.1
ember-cli-release v0.2.8
ember-cli-shims v0.0.6
ember-cli-sri v1.2.1
ember-cli-test-loader v0.2.1
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ember-d3 v0.1.0
ember-data v2.1.0
ember-disable-proxy-controllers v1.0.1
ember-export-application-global v1.0.5
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ember-truth-helpers v1.2.0
jquery v2.1.4
jquery-ui v1.11.4
loader.js v3.3.0
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spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
JUL to SLF4J bridge
1.7.25
SLF4J API Module 1.7.25
SLF4J LOG4J-12 Binding 1.7.25

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1.1)

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```
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- * /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserInputStream.java
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- *
- /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserByteArray.java
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1.651 jackson 2.13.0

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1.652 jackson-databind 2.13.0

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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/CertificateVerifier.java

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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/CertificateRequestedCallback.java

* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java

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```
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
*
/opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/CertificateVerifierTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSLTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/CertificateCallbackTask.java
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```
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSLSession.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSLSessionCache.java
```

1.655 log4j-api 2.17.0

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1.656 apache-log4j 2.17.0

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- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/ILoggerFactory.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/FormattingTuple.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/MessageFormatter.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java
- *
- /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/NOPLogger.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/MarkerFactory.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/Marker.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/Util.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/MDC.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/SubstituteLogger.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/spi/LocationAwareLogger.java
- *
- /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/BasicMarker.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
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- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/LoggerFactory.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
- * /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java

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```

Found in path(s):

```
*/opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-
jar/org/slf4j/spi/LoggingEventBuilder.java
*/opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-jar/org/slf4j/Logger.java
*/opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-
jar/org/slf4j/LoggerFactoryFriend.java
```

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* /opt/cola/permits/1255128871_1653633407.6160247/0/slf4j-api-2-0-0-alpha4-sources-
jar/org/slf4j/helpers/AbstractLogger.java

1.659 mail 4.0

1.659.1 Available under license :

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* /opt/cola/permits/1255138848_1653633861.512536/0/simple-java-mail-4-0-0-sources-
jar/org/simplejavamail/internal/util/MimeMessageParser.java

1.660 jackson-annotations 2.13.0

1.660.1 Available under license :

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1.661 jackson-jaxrs 2.13.0

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LongType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
*
/opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ListType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/xml/util/XmlChars.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearMonthType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DurationType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TokenType.java
*
/opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TimeType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FinalComponent.java
*
/opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxExclusiveFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-

jar/com/sun/msv/datatype/xsd/UnionType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/BooleanType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NegativeIntegerType.java
*
/opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/Util.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NumberType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
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*
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DatatypeFactory.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/QnameValueType.java
*

/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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 jar/com/sun/msv/datatype/DatabindableDatatype.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/NmtokenType.java
 *
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/DateTimeBaseType.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/Proxy.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/LengthFacet.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/ListValueType.java
 *
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/XSDatatype.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/LanguageType.java
 * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
 jar/com/sun/msv/datatype/xsd/RangeFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ErrorHandler.java
*
/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GMonthType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ngimpl/DataTypeLibraryImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ShortType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GMonthDayType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateTimeType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PatternFacet.java
*
/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/SerializationContext.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/AnyURIType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedShortType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
*
/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Discrete.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-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
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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
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jar/com/sun/msv/datatype/xsd/IDREFTType.java
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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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- *
/opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Op.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/ParseException.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Match.java
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/REUtil.java
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jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
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jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
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jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
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jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
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jar/org/apache/xerces/dom3/as/ASDataType.java
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jar/org/apache/xerces/dom3/as/ASContentModel.java
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jar/org/apache/xerces/dom3/as/DOMASWriter.java
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jar/org/apache/xerces/dom3/as/DocumentEditAS.java
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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
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jar/org/apache/xerces/dom3/as/DOMASException.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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```
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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 "[error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-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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Found in path(s):

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java

*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java

*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/xpointer/XPointerHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/XMLCatalogResolver.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ElementDefinitionImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLCardElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/util/ShortListImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/util/Base64.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/CDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/CMBuilder.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLMetaElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/XSSimpleType.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDelegate.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/events/UIEventImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xml/serialize/Method.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/datatypes/ByteList.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLBodyElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredAttrImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/DOMUtil.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLIElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xpointer/ElementSchemePointer.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/SecurityManager.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/XMLErrorCode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/util/XIntPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SchemaSymbols.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/UTF16Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DOMStringListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLImageElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSModelImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/StAXEventResultBuilder.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dtd/DTDGrammar.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/datatypes/ObjectList.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java
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 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLHeadElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/PSVErrorList.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-
 jar/org/apache/xerces/xni/XMLAttributes.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/dom/DeferredEntityImpl.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-
jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/ChildNode.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/Constants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/events/MouseEventImpl.java
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/Util.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/jaxp/DefaultValidationErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
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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/jaxp/validation/ReadOnlyGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DOMErrorImpl.java

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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/wml/dom/WMLNoopElementImpl.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-
jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/impl/validation/ValidationState.java
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLDOMImplementation.java
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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-
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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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*
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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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*
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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/XMLVersionDetector.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-
jar/org/apache/xerces/impl/xs/util/StringListImpl.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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jar/org/apache/html/dom/HTMLHeadingElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/XSFacets.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/ElementPSVI.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLRefreshElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/XMLResourceIdentifier.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/XML11Configuration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/EntityImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLAccessElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/XMLSymbols.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xpointer/XPointerProcessor.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLSetvarElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/XMLDTDHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/XSMultiValueFacet.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/XSAnnotation.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/DTDDVFactory.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/identity/ValueStore.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/util/DOMErrorHandlerWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/XMLEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/util/XS10TypeHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLDivElementImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSNamespaceItem.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/XML11Char.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLNamespaceBinder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarPreparser.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/dom/RangeExceptionImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/PSVIProvider.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLStyleElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/validation/ValidationManager.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/XSElementDecl.java
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/DOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLLIElementImpl.java

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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-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/SecureProcessingConfiguration.java
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.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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 jar/org/apache/xerces/impl/dtd/XMLDTDDescription.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/xpath/regex/ParserForXMLSchema.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-
 jar/org/apache/xml/serialize/SerializerFactory.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/HTTPInputSource.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/xml/serialize/BaseMarkupSerializer.java
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/CharactersImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java
*
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
*
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DVFactoryException.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptionElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.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/opti/AttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/RevalidationHandler.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.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),
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*/

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/package.html

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jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /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
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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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1.667 jackson-dataformat-csv 2.13.0

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1.668 accessors-smart 1.2

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* /opt/cola/permits/1257532423_1642861239.0/0/accessors-smart-1-2-sources-
jar/net/minidev/asm/DynamicClassLoader.java
* /opt/cola/permits/1257532423_1642861239.0/0/accessors-smart-1-2-sources-jar/net/minidev/asm/ASMUtil.java
* /opt/cola/permits/1257532423_1642861239.0/0/accessors-smart-1-2-sources-
jar/net/minidev/asm/BeansAccess.java
*
/opt/cola/permits/1257532423_1642861239.0/0/accessors-smart-1-2-sources-jar/net/minidev/asm/Accessor.java
```

1.669 jcip-annotation 1.0-1

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```

```
jar/net/jcip/annotations/Immutable.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/NotThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/ThreadSafe.java
*
/opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/GuardedBy.java
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1.670 netty-tcnative-classes 2.0.46.Final

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jar/io/netty/internal/tcnative/ResultCallback.java
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jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethodAdapter.java
*
/opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethod.java
* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-
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* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java

*
/opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SSLTask.java

* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/CertificateVerifierTask.java

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* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/CertificateCallbackTask.java

* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java

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jar/io/netty/internal/tcnative/SSLSessionCache.java
* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-
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* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/Buffer.java
* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/SSL.java
* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-
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* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-
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Found in path(s):

* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SniHostNameMatcher.java
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* /opt/cola/permits/1257863753_1643019608.43/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/CertificateVerifier.java

1.671 sizeof 0.3.0

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1.672 jackson-annotations 2.4.0

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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

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- * java.sun.security.ssl

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

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org.ow2.asm:asm-commons

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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

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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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1.674 jetty-webapp 9.4.20.v20190813

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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

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* org.eclipse.jetty.orbit:javafx.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

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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
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The following artifacts are EPL.

* 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

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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1.676 nimbus-jose-jwt 7.9

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1.677 re2j 1.1

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* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/make_perl_groups.pl

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* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Regex.java

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* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Inst.java

*

```
/opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/PatternSyntaxException.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Compiler.java
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* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Matcher.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Pattern.java
```

1.678 jetty-util 9.4.20.v20190813

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Eclipse

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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

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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1.679 jetty-security 9.4.20.v20190813

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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.

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.

1.680 netty-resolver-dns-native-macos

4.1.71.Final

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Manifest-Version: 1.0

Implementation-Title: Netty/Resolver/DNS/Native/MacOS

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.resolver.dns.macos

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Implementation-Version: 4.1.71.Final
Built-By: norman
Bnd-LastModified: 1639060829690
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Bundle-Version:
4.1.71.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: <https://netty.io/netty-resolver-dns-native-macos/>

Found in path(s):

* /opt/cola/permits/1258617660_1643106494.83/0/netty-resolver-dns-native-macos-4-1-71-final-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1258617660_1643106494.83/0/netty-resolver-dns-native-macos-4-1-71-final-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml

1.681 netty-codec-stomp 4.1.71.Final

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* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-jar/META-INF/maven/io.netty/netty-codec-stomp/pom.xml

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* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-jar/io/netty/handler/codec/stomp/StompHeaders.java

* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompFrame.java

*

```

/opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/package-info.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompConstants.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java
*
/opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompCommand.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompContentSubframe.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompFrame.java
* /opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframe.java
*
/opt/cola/permits/1258617722_1643096332.62/0/netty-codec-stomp-4-1-71-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java

```

1.682 netty-codec-dns 4.1.71.Final

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* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryDecoder.java

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* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java

*

/opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsPtrRecord.java

* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java

* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java

* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java

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* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java
*
/opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
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* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-jar/META-INF/maven/io.netty/netty-codec-dns/pom.xml
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```
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsRecord.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
*
  /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsOpCode.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
*
  /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/package-info.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsResponse.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
```

```

jar/io/netty/handler/codec/dns/DnsQuestion.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
*
/opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsRawRecord.java
*
/opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/1258617801_1643096293.24/0/netty-codec-dns-4-1-71-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java

```

1.683 netty-resolver 4.1.71.Final

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* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
*
/opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/AddressResolver.java

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* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-

jar/io/netty/resolver/NameResolver.java

* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/package-info.java

*

/opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

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* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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* /opt/cola/permits/1258617795_1643096320.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

1.684 netty-transport-native-unix-common

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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/IovArray.java

*

/opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java

* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/Unix.java

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*

/opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java

* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_util.c

* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_limits.c

* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_util.h

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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainDatagramChannel.java
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/opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainDatagramPacket.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
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jar/netty_unix_socket.c
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
*
/opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_socket.h
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jar/netty_unix_filedescriptor.h
*
/opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_errors.h
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainSocketChannel.java
*
/opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_jni.h

1.685 netty-transport 4.1.71.Final

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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
*
/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AbstractEventLoop.java

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jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/bootstrap/Bootstrap.java
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
*
/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/EventLoop.java
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/package-info.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelMetadata.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/nio/NioTask.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelConfig.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelException.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/Channel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelFuture.java


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jar/io/netty/channel/embedded/EmbeddedEventLoop.java
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jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/EventLoopGroup.java
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jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ServerChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelPipeline.java
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jar/io/netty/channel/embedded/package-info.java

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jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/oio/AbstractOioMessageChannel.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/socket/DefaultSocketChannelConfig.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/local/package-info.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/FailedChannelFuture.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/ChannelHandlerContext.java

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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/socket/DatagramChannelConfig.java

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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/StacklessClosedChannelException.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/socket/DuplexChannelConfig.java

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jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultAddressedEnvelope.java

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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
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```
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
```

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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java

*

/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java

*

/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/package-info.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/ChannelPool.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

*

/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelHandlerMask.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:
* <ul>
* <li>{ @link
ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </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 } &lt; { @link Channel } &gt; {
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </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}&lt;&Message&gt; {
*   private final { @link AttributeKey}&lt;& Boolean&gt; auth =
*     { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*   { @code @Override}
*   public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*     { @link Attribute}&lt;& Boolean&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) o);
*       <b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*       if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*         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}&lt;& Channel&gt; {
*
*   private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*   { @code @Override}
*   public void initChannel({ @link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* }
* </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/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelHandler.java

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jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
*
/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/PendingBytesTracker.java
*
/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/internal/ChannelUtils.java

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jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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jar/io/netty/channel/WriteBufferWaterMark.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java

*

/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SelectStrategy.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java

* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

```
jar/io/netty/channel/DefaultSelectStrategyFactory.java
*
/opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
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image/io.netty.transport/native-image.properties
```

1.686 netty-codec-smtp 4.1.71.Final

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jar/io/netty/handler/codec/smtp/SmtpResponse.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-
jar/io/netty/handler/codec/smtp/SmtpContent.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-
jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
```

*
/opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/SmtpCommand.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/package-info.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequest.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/SmtpUtils.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java
*
/opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpRequest.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/LastSmtpContent.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequests.java
* /opt/cola/permits/1258617635_1643096336.56/0/netty-codec-smtp-4-1-71-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java

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1.687 netty-codec-redis 4.1.71.Final

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* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/RedisMessageType.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
*
/opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/RedisEncoder.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecException.java
*
/opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
```


jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
*
/opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/RedisDecoder.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
*
/opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
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```
*/opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java
```

1.688 netty-transport-native-kqueue

4.1.71.Final

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INF/maven/io.netty/netty-transport-native-kqueue/pom.xml
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```
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jar/netty_kqueue_native.c
* /opt/cola/permits/1258617747_1643096323.73/0/netty-transport-native-kqueue-4-1-71-final-sources-
jar/netty_kqueue_bsdsocket.h
* /opt/cola/permits/1258617747_1643096323.73/0/netty-transport-native-kqueue-4-1-71-final-sources-
jar/netty_kqueue_eventarray.c
*
/opt/cola/permits/1258617747_1643096323.73/0/netty-transport-native-kqueue-4-1-71-final-sources-
jar/netty_kqueue_eventarray.h
* /opt/cola/permits/1258617747_1643096323.73/0/netty-transport-native-kqueue-4-1-71-final-sources-
jar/netty_kqueue_bsdsocket.c
```

1.689 netty-handler-proxy 4.1.71.Final

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* /opt/cola/permits/1258617813_1643096343.87/0/netty-handler-proxy-4-1-71-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java

* /opt/cola/permits/1258617813_1643096343.87/0/netty-handler-proxy-4-1-71-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

*

/opt/cola/permits/1258617813_1643096343.87/0/netty-handler-proxy-4-1-71-final-sources-jar/io/netty/handler/proxy/package-info.java

* /opt/cola/permits/1258617813_1643096343.87/0/netty-handler-proxy-4-1-71-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

* /opt/cola/permits/1258617813_1643096343.87/0/netty-handler-proxy-4-1-71-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java

* /opt/cola/permits/1258617813_1643096343.87/0/netty-handler-proxy-4-1-71-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java

* /opt/cola/permits/1258617813_1643096343.87/0/netty-handler-proxy-4-1-71-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java

1.690 netty-codec-memcache 4.1.71.Final

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* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
*
/opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/MemcacheContent.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/MemcacheMessage.java
*
/opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheServerCodec.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java
* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-
jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java
```

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpcodes.java

*

/opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectDecoder.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/MemcacheObject.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java

*

/opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/package-info.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheDecoder.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheClientCodec.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheRequest.java

*

/opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheEncoder.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java

* /opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/package-info.java

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/opt/cola/permits/1258617696_1643096339.55/0/netty-codec-memcache-4-1-71-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseDecoder.java

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1.691 netty-codec-socks 4.1.71.Final

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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
*

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/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthStatus.java
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*
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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageType.java
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jar/io/netty/handler/codec/socks/SocksCmdType.java
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jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
*
/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v4/package-info.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
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/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
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jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
*
/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-
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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java

*

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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java

* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java

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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java

*

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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java

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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java

* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java

* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java

* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java

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/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java

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jar/io/netty/handler/codec/socks/package-info.java
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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
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/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
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/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
*
/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java

* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java

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* /opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java

*

/opt/cola/permits/1258617654_1643096327.12/0/netty-codec-socks-4-1-71-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java

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1.692 netty-transport-udt 4.1.71.Final

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jar/io/netty/channel/udt/DefaultUdtChannelConfig.java
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```
* /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
jar/io/netty/channel/udt/UdtMessage.java
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* /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
jar/io/netty/channel/udt/UdtChannelConfig.java
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*
 /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
jar/io/netty/channel/udt/package-info.java
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* /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
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jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
*
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jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
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jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
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jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
jar/io/netty/channel/udt/nio/NioUdtProvider.java
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* /opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java
*
/opt/cola/permits/1258617666_1643096311.96/0/netty-transport-udt-4-1-71-final-sources-
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1.693 netty-codec-haproxy 4.1.71.Final

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jar/io/netty/handler/codec/haproxy/HAProxyTLV.java
* /opt/cola/permits/1258617779_1643096300.22/0/netty-codec-haproxy-4-1-71-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java
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* /opt/cola/permits/1258617779_1643096300.22/0/netty-codec-haproxy-4-1-71-final-sources-jar/io/netty/handler/codec/haproxy/HARProxyProtocolVersion.java
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/opt/cola/permits/1258617779_1643096300.22/0/netty-codec-haproxy-4-1-71-final-sources-jar/io/netty/handler/codec/haproxy/HARProxyConstants.java
* /opt/cola/permits/1258617779_1643096300.22/0/netty-codec-haproxy-4-1-71-final-sources-jar/io/netty/handler/codec/haproxy/package-info.java
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* /opt/cola/permits/1258617779_1643096300.22/0/netty-codec-haproxy-4-1-71-final-sources-jar/io/netty/handler/codec/haproxy/HARProxyProtocolException.java
* /opt/cola/permits/1258617779_1643096300.22/0/netty-codec-haproxy-4-1-71-final-sources-jar/io/netty/handler/codec/haproxy/HARProxyMessageDecoder.java
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* /opt/cola/permits/1258617779_1643096300.22/0/netty-codec-haproxy-4-1-71-final-sources-jar/META-INF/maven/io.netty/netty-codec-haproxy/pom.xml
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1.694 netty-transport-rxtx 4.1.71.Final

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* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/package-info.java

* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java

* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java

*

/opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java

* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java

* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java

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1.695 netty-transport-classes-epoll

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jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
*

/opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

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jar/io/netty/channel/epoll/Native.java

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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollMode.java

*
/opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java

*
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/Epoll.java
*

/opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/package-info.java

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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
*
/opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
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*/
/**
* Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*
*/
```

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```
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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/**
 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
*/
*/
/**
 * Set the { @code TCP_QUICKACK } option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
 * for more details.
*/

```

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```

* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
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1.696 netty-codec-http 4.1.71.Final

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```
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-  
jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
```

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*
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```
/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-  
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java
```

```
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-  
jar/io/netty/handler/codec/http2/Http2FrameListener.java
```

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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-  
jar/io/netty/handler/codec/http2/Http2Connection.java
```

```
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-  
jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java
```

```
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-  
jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
```

```
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jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
```

```
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
```

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jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
*
/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2Headers.java
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jar/io/netty/handler/codec/http2/Http2Exception.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
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jar/io/netty/handler/codec/http2/Http2DataWriter.java
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/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2Error.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameAdapter.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2Flags.java
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jar/io/netty/handler/codec/http2/package-info.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2Settings.java
*
/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
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jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2FlowController.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2Stream.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
*

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/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
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jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameTypes.java
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/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2EventAdapter.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java

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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
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// <https://tools.ietf.org/html/rfc7540#section-8.1.2.2> makes a special exception for TE

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* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2StreamVisitor.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
*
/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java

```
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
*
/opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/StreamByteDistributor.java
* /opt/cola/permits/1258617833_1643096313.87/0/netty-codec-http2-4-1-71-final-sources-
jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
```

1.697 netty-transport-sctp 4.1.71.Final

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```
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/DefaultSctpServerChannelConfig.java
```

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* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/channel/sctp/oio/OioSctpChannel.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java
*

/opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/channel/sctp/oio/package-info.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/channel/sctp/nio/package-info.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java

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* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/com/sun/nio/sctp/MessageInfo.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/com/sun/nio/sctp/UnsupportedOperationException.java

```

*
/opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/SctpStandardSocketOptions.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/HandlerResult.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/SctpServerChannel.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/AbstractNotificationHandler.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/Association.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
*
/opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/SendFailedNotification.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/PeerAddressChangeNotification.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/SctpMessage.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/SctpChannel.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/package-info.java
*
/opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/AssociationChangeNotification.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/Notification.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/ShutdownNotification.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/com/sun/nio/sctp/NotificationHandler.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-
jar/io/netty/channel/sctp/SctpChannel.java
*

```

/opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/com/sun/nio/sctp/SctpSocketOption.java

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* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java

*

/opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/handler/codec/sctp/package-info.java

* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4-1-71-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java

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/**

* Utility class for {@link ByteBuf} that encodes and decodes to and from
* [Base64](https://en.wikipedia.org/wiki/Base64) notation.

* <p>

* The encoding and decoding algorithm in this class has been derived from
* [Robert Harder's Public Domain](http://iharder.sourceforge.net/current/java/base64/)
* Base64 Encoder/Decoder.

*/

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/base64/Base64.java

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

*

/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Snappy.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/base64/package-info.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CodecException.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java

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/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java

*

/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-

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jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/package-info.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DecoderException.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
 *
 /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/Delimiters.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
 *
 /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
 *
 /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-

```
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/EncoderException.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/package-info.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
```

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-

```
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.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/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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```

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java

```

```

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java

```

```

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/ValueConverter.java

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java

*

/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-

```
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Brotli.java
*
/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/GzipOptions.java
```

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.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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* Base64 Encoder/Decoder.

*/

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jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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jar/io/netty/handler/codec/DefaultHeaders.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/Headers.java

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

*

/opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DateFormatter.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CodecOutputList.java

* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

1.699 netty-handler 4.1.71.Final

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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-


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jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
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jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
```

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/package-info.java
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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/Ciphers.java

*

/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java

*

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/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
*
```

/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java

*

/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/address/package-info.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

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jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
*

/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java

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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java

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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSsl.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java

*

/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslProvider.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java

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/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-

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jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
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/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/flush/package-info.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PemValue.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-

jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
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jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
*
/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
*

/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java

* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

*

/opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

1.700 netty-codec-xml 4.1.71.Final

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```
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlSpace.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlCharacters.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlNamespace.java
*
/opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlDocumentEnd.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlDTD.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlEntityReference.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlComment.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlAttribute.java
*
/opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlDecoder.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
```

```
jar/io/netty/handler/codec/xml/XmlElement.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlElementStart.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlDocumentStart.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlCdata.java
* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlContent.java
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* /opt/cola/permits/1258617629_1643096350.24/0/netty-codec-xml-4-1-71-final-sources-jar/META-
INF/maven/io.netty/netty-codec-xml/pom.xml
```

1.701 netty-transport-native-epoll 4.1.71.Final

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* /opt/cola/permits/1258617690_1643096296.56/0/netty-transport-native-epoll-4-1-71-final-sources-jar/netty_epoll_linuxsocket.c

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1.702 netty-transport-classes-kqueue

4.1.71.Final

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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannel.java

*

/opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueDatagramChannel.java

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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/KQueue.java

*

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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java

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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/NativeLongArray.java

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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/Native.java

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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java

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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java
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1.703 netty-resolver-dns 4.1.71.Final

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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java
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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsNameResolver.java
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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java

*
/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/InflightNameResolver.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NoopDnsCache.java
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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
*
/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
*
/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/Cache.java
*
/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java

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jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
*
/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/DnsCacheEntry.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
*
/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-

jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java

*

/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-

jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java

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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/UnixResolverOptions.java

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jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
*
/opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
jar/io/netty/resolver/dns/TcpDnsQueryContext.java
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image/io.netty.resolver.dns.native-image.properties
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1.704 netty-resolver-dns-classes-macos

4.1.71.Final

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* /opt/cola/permits/1258617702_1643096318.45/0/netty-resolver-dns-classes-macos-4-1-71-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java

*

/opt/cola/permits/1258617702_1643096318.45/0/netty-resolver-dns-classes-macos-4-1-71-final-sources-jar/io/netty/resolver/dns/macos/package-info.java

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1.705 netty-codec-mqtt 4.1.71.Final

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* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdAndPropertiesVariableHeader.java

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/opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscriptionOption.java

* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttReasonCodeAndPropertiesVariableHeader.java

* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttPubReplyMessageVariableHeader.java

* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubAckPayload.java

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jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java

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* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttVersion.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessage.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttDecoder.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageType.java
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/opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscribeMessage.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
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* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java
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* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java
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jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-
jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-
jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java
* /opt/cola/permits/1258617740_1643096304.04/0/netty-codec-mqtt-4-1-71-final-sources-
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1.706 netty-buffer 4.1.71.Final

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```

```
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
```

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```
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
*
/opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/WrappedByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/ByteBufHolder.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/DefaultByteBufHolder.java
*
/opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/ByteBufProcessor.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
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jar/io/netty/buffer/search/package-info.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/SizeClassesMetric.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/LongLongHashMap.java
*
/opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/LongPriorityQueue.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/SizeClasses.java
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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
*
/opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/META-INF/maven/io.netty/netty-buffer/pom.xml
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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
*
/opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/SearchProcessor.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
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- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolArena.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ReadOnlyByteBuf.java
- *
- /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledByteBuf.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ByteBufUtil.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledByteBufAllocator.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledDirectByteBuf.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnpooledHeapByteBuf.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SlicedByteBuf.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SwappedByteBuf.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolSubpage.java
- *
- /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/Unpooled.java
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- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolChunkList.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/DuplicatedByteBuf.java
- *
- /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ByteBufAllocator.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractByteBuf.java
- * /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolChunk.java

* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/package-info.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/CompositeByteBuf.java

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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java

* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolSubpageMetric.java

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/opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java

* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java

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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/HeapByteBufUtil.java

* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnpooledSlicedByteBuf.java

* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java

* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java

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/opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolArenaMetric.java

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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java

* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java

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1.708 hikaricp-java7 2.4.12

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```
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
```

jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/metrics/MetricsTracker.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/pool/HikariPool.java
*
/opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/HikariJNDIFactory.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
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jar/com/zaxxer/hikari/pool/PoolBase.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTrackerFactory.java
*
/opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
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* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/util/PropertyElf.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
*
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java

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* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/HikariConfig.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
*
/opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/util/FastList.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/util/DriverDataSource.java

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* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-jar/com/zaxxer/hikari/metrics/PoolStats.java

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jar/com/zaxxer/hikari/pool/PoolEntry.java  
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-  
jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java
```

1.709 statistics 1.4.3

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1.711 protobuf-java-util 3.7.1

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```
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/Durations.java
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/FieldMaskUtil.java
*
/opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/TimeUtil.java
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/JsonFormat.java
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
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* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/FieldMaskTree.java
```

1.712 threetenbp 1.3.1

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1.713 jersey-json 1.19

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1.716 netty 4.1.71.Final

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Manifest-Version: 1.0

Implementation-Title: Netty/Example

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name:

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.example

Implementation-Version: 4.1.71.Final

Built-By: root

Bnd-LastModified: 1639059112249

Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.barchart.udt;version="[2.3,3)",com.google.protobuf;version="[2.6,3)",io.netty.bootstrap;version="[4.1,5)",io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.group;version="[4.1,5)",io.netty.channel.local;version="[4.1,5)",io.netty.channel.nio;version="[4.1,5)",io.netty.channel.oio;version="[4.1,5)",io.netty.channel.rxtx;version="[4.1,5)",io.netty.channel.sctp;version="[4.1,5)",io.netty.channel.sctp.nio;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.channel.socket.nio;version="[4.1,5)",io.netty.channel.udt;version="[4.1,5)",io.netty.channel.udt.nio;version="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.codec.dns;version="[4.1,5)",io.netty.handler.codec.haproxy;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)",io.netty.handler.codec.http.cookie;version="[4.1,5)",io.netty.handler.codec.http.cookie.multipart;version="[4.1,5)",io.netty.handler.codec.http.multipart;version="[4.1,5)",io.netty.handler.codec.http.websocketx;version="[4.1,5)",io.netty.handler.codec.http.websocketx.extensions.compression;version="[4.1,5)",io.netty.handler.codec.http2;version="[4.1,5)",io.netty.handler.codec.memcache.binary;version="[4.1,5)",io.netty.handler.codec.mqtt;version="[4.1,5)",io.netty.handler.codec.protobuf;version="[4.1,5)",io.netty.handler.codec.redis;version="[4.1,5)",io.netty.handler.codec.serialization;version="[4.1,5)",io.netty.handler.codec.socksx;version="[4.1,5)",io.netty.handler.codec.socksx.v4;version="[4.1,5)",io.netty.handler.codec.socksx.v5;version="[4.1,5)",io.netty.handler.codec.spdy;version="[4.1,5)",io.netty.handler.codec.stomp;version="[4.1,5)",io.netty.handler.codec.string;version="[4.1,5)",io.netty.handler.logging;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.ssl.ocsp;version="[4.1,5)",io.netty.handler.ssl.util;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.handler.timeout;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.activation;version="[1.2,2)",javax.net.ssl,javax.security.cert,org.bouncycastle.asn1,org.bouncycastle.asn1.ocsp;version="[1.69,2)",org.bouncycastle.asn1.oiw;version="[1.69,2)",org.bouncycastle.asn1.x509;version="[1.69,2)",org.bouncycastle.cert;version="[1.69,2)",org.bouncycastle.cert.jcajce;version="[1.69,2)",org.bouncycastle.cert.ocsp;version="[1.69,2)",org.bouncycastle.crypto;version="[1.69,2)",org.bouncycastle.crypto.digests;version="[1.69,2)",org.bouncycastle.crypto.io;version="[1.69,2)",org.bouncycastle.jce.provider;version="[1.69,2)",org.bouncycastle.openssl;version="[1.69,2)",org.bouncycastle.operator;version="[1.69,2)",org.bouncycastle.x509.extension;version="[1.69,2)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.example.discard;uses:="io.netty.channel";version="4.1.71",io.netty.example.dns.dot;version="4.1.71",io.netty.example.dns.tcp;version="4.1.71",io.netty.example.dns.udp;version="4.1.71",io.netty.example.echo;uses:="io.netty.channel";version="4.1.71",io.netty.example.factorial;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.handler.codec,io.netty.handler.ssl";version="4.1.71",io.netty.example.file;uses:="io.netty.channel";version="4.1.71",io.netty.example.haproxy;uses:="io.netty.channel";version="4.1.71",io.netty.example.http.cors;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.http.file;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.ssl";version="4.1.71",io.netty.example.http.helloworld;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.ssl";version="4.1.71",io.netty.example.http.snoop;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.ssl";version="4.1.71",io.netty.example.http.upload;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.ssl";version="4.1.71",io.netty.example.http.websocketx.benchmarkserver;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.http.websocketx.client;uses:="io.netty.channel,io.netty.handler.codec.http.websocketx";version="4.1.71",io.netty.example.http.websocketx.server;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.codec.http.websocketx,io.netty.handler.ssl";version="4.1.71",io.netty.example.http2;uses:="io.netty.buffer,io.netty.handler.codec.http";version="4.1.71",io.netty.example.http2.helloworld.client;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.codec.http2,io.netty.handler.ssl";version="4.1.71",io.netty.example.http2.helloworld.frame.client;uses:="io.netty.channel,io.netty.handler.codec.http2,io.netty.handler.ssl";version="4.1.71",io.netty.example.http2.helloworld.frame.server;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.http2.helloworld.multiplex.server;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.http2.helloworld.server;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.codec.http2,io.netty.handler.ssl";version="4.1.71",io.netty.example.http2.tiles;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.handler.ssl";version="4.1.71",io.netty.example.localecho;uses:="io.netty.channel";version="4.1.71",io.netty.example.memcache.binary;uses:="io.netty.channel";version="4.1.71",io.netty.example.mqtt.heartBeat;uses:="io.netty.channel";version="4.1.71",io.netty.example.objectecho;uses:="io.netty.channel";version="4.1.71",io.netty.example.ocsp;uses:="org.bouncycastle.asn1.x509,org.bo

uncycastle.cert.ocsp,org.bouncycastle.operator";version="4.1.71",io.netty.example.portunification;uses="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.ssl";version="4.1.71",io.netty.example.proxy;uses="io.netty.channel,io.netty.channel.socket";version="4.1.71",io.netty.example.qotm;uses="io.netty.channel,io.netty.channel.socket";version="4.1.71",io.netty.example.redis;uses="io.netty.channel";version="4.1.71",io.netty.example.rxtx;uses="io.netty.channel";version="4.1.71",io.netty.example.sctp;uses="io.netty.channel";version="4.1.71",io.netty.example.sctp.multihoming;version="4.1.71",io.netty.example.securechat;uses="io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.sockspoxy;uses="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.socksx,io.netty.util.concurrent";version="4.1.71",io.netty.example.spdy.client;uses="io.netty.channel,io.netty.channel.socket,io.netty.handler.codec.http,io.netty.handler.ssl,io.netty.util.internal.logging";version="4.1.71",io.netty.example.spdy.server;uses="io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.stomp;uses="io.netty.channel,io.netty.handler.codec.stomp";version="4.1.71",io.netty.example.stomp.websocket;uses="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.codec.http.websocketx,io.netty.handler.codec.stomp,io.netty.util";version="4.1.71",io.netty.example.stomp.websocket.css;version="4.1.71",io.netty.example.telnet;uses="io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.udt.echo.bytes;uses="io.netty.buffer,io.netty.channel";version="4.1.71",io.netty.example.udt.echo.message;uses="io.netty.channel,io.netty.channel.udt";version="4.1.71",io.netty.example.udt.echo.rendezvous;uses="io.netty.channel,io.netty.channel.udt";version="4.1.71",io.netty.example.udt.echo.rendezvousBytes;uses="io.netty.buffer,io.netty.channel";version="4.1.71",io.netty.example.uptime;uses="io.netty.channel";version="4.1.71",io.netty.example.worldclock;uses="com.google.protobuf,io.netty.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71"

Bundle-Name: Netty/Example

Bundle-Version: 4.1.71.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-example/>

Found in path(s):

* /opt/cola/permits/1266388583_1644245383.46/0/netty-example-4-1-71-final-jar/META-INF/MANIFEST.MF

1.717 cloudera-manager-api 6.3.0

1.717.1 Available under license :

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

```
/**
 * Version.
 * @return version
 **/
```

Found in path(s):

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/swagger/model/ApiVersionInfo.java
```

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//distributed under the License is distributed on an "AS IS" BASIS,
```

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```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiTimeSeriesRow.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiTimeSeriesResponseList.java
```

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```
// Copyright (c) 2017 Cloudera, Inc. All rights reserved.
```

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```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiHostRecommissionType.java
```

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// http://www.apache.org/licenses/LICENSE-2.0
// distributed under the License is distributed on an "AS IS" BASIS,
/**
```

```
* Clean up all running server instances of a ZooKeeper service.
* <p>
* This command removes snapshots and transaction log files kept by
* ZooKeeper for backup purposes. Refer to the ZooKeeper documentation
* for more details.
*
* @param serviceName The service to start.
* @return Information about the submitted command.
*/
```

Found in path(s):

* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v1/ServicesResource.java

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// "License"); you may not use this file except in compliance  
// with the License. You may obtain a copy of the License at  
// 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/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v33/ClustersResourceV33.java

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```
// Copyright (c) 2015 Cloudera, Inc. All rights reserved.
```

Found in path(s):

* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v12/ClouderaManagerResourceV12.java

* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v11/CommandsResourceV11.java

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```
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```

Found in path(s):

* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v10/AuditsResourceV10.java

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//with the License. You may obtain a copy of the License at  
// 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/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiAuthRoleRef.java

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```
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```

Found in path(s):

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/model/ApiReplicationDiagnosticsCollectionArgs.java
```

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// with the License. You may obtain a copy of the License at  
// http://www.apache.org/licenses/LICENSE-2.0  
// distributed under the License is distributed on an "AS IS" BASIS,  
/** Version. */
```

Found in path(s):

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/model/ApiVersionInfo.java
```

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// with the License. You may obtain a copy of the License at  
// 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/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/model/ApiListBase.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/v30/UsersResourceV30.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/v11/ClustersResourceV11.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/v16/RootResourceV16.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/v17/ClustersResourceV17.java
```

```
*
```

```
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/v3/RootResourceV3.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/model/ApiImpalaQueryResponse.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/model/ApiConfigStalenessStatus.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/v33/RootResourceV33.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/model/ApiCommandList.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/model/ApiCollectDiagnosticDataArguments.java
```

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-  
jar/com/cloudera/api/v3/package-info.java
```

*
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiHBaseSnapshotError.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiEnableRmHaArguments.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiRoleConfigGroupList.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v31/RootResourceV31.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v5/ParcelsResourceV5.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiDisableNnHaArguments.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiHostsPerfInspectorArgs.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v4/RoleCommandsResourceV4.java
*
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiKerberosInfo.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v16/ServicesResourceV16.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiTimeSeriesEntityAttribute.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiActivity.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiServiceRef.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/JsdocGenerator.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiExternalAccountCategoryList.java
*
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiRolesToInclude.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiBatchRequestElement.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiEnableJtHaArguments.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiImpalaUtilization.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v30/ExternalUserMappingsResourceV30.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v32/ClouderaManagerResourceV32.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiUserSession.java
*

/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v6/ClustersResourceV6.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiRoleList.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/DataView.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiUser2Ref.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiCmPeerList.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiCommandMetadataList.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v17/package-info.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiRoleRef.java
*
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v9/RootResourceV9.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiHostTemplateList.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiParcelUsageParcel.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiServiceList.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v11/RootResourceV11.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v6/MgmtServiceResourceV6.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiPrincipalList.java
*
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v13/RootResourceV13.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiEvent.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v1/RootResourceV1.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v31/HostsResourceV31.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v14/ClustersResourceV14.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/ApiTimeAggregation.java
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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiBatchResponseElement.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v14/package-info.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v8/MgmtRoleCommandsResourceV8.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v1/UsersResource.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiHostTemplate.java
*
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiRoleConfigGroupRef.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-

```
jar/com/cloudera/api/v31/AuthServiceRoleCommandsResource.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiParcelState.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiRoleTypeConfig.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiClusterTemplateRoleConfigGroupInfo.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiExternalAccount.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiImpalaTenantUtilizationList.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v12/package-info.java
*
/opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiClustersPerfInspectorArgs.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiGenerateHostCertsArguments.java
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```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiDataContextRef.java
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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v14/ExternalAccountsResourceV14.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiHiveUDF.java
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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiHdfsCloudReplicationArguments.java
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiReplicationState.java
```

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/**
 * The details for this query. Two formats are supported:
 * <ul>
 * <li>
 * 'text': this is a text based, human readable representation of the
 * Impala runtime profile.
 * </li>
 * <li>
 * 'thrift_encoded': this a compact-thrift, base64 encoded representation
 * of the impala RuntimeProfile.thrift object. See the Impala documentation
 * for more details.
 * </li>
 * </ul>
 */
```

Found in path(s):

```
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/model/ApiImpalaQueryDetailsResponse.java
```

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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v32/ClustersResourceV32.java
```

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/**
```

```
* Returns details about the query. Not all queries have details, check
* the detailsAvailable field from the getQueries response.
* <p>
```



```

* Available since API v4.
*
* @param queryId The queryId to get information about
* @param format There are two valid format parameters:
* <ul>
* <li>
* 'text': this is a text based, human readable representation of the
* Impala runtime profile.
* </li>
* <li>
* 'thrift_encoded': this a compact-thrift, base64 encoded representation
* of the Impala RuntimeProfile.thrift object. See the Impala documentation
* for more details.
* </li>
* </ul>
* @return The query details
*/

```

Found in path(s):

```

* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v4/ImpalaQueriesResource.java
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```

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// distributed under the License is distributed on an "AS IS" BASIS,
/**

```

```

* Cleanup a list of ZooKeeper server roles.
* <p>
* This command removes snapshots and transaction log files kept by
* ZooKeeper for backup purposes. Refer to the ZooKeeper documentation
* for more details.
*
* @param roleNames The names of the roles.
* @return A list of submitted commands.
*/

```

Found in path(s):

```

* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
jar/com/cloudera/api/v1/RoleCommandsResource.java

```

1.718 eclipse-persistence-oracle 2.4.2- SNAPSHOT

1.718.1 Available under license :

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 *   tware - initial
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```

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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/util/TransactionWrapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/util/JPARSLogger.java
*
```

```
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/util/ResourceLocalTransactionWrapper.java
```

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 *
 * Contributors:
 *   mmacivor - June 11/2008 - 1.0 - Initial implementation
 */
```

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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/exceptions/JAXBException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/exceptions/i18n/JAXBExceptionResource.java
```

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* ailichev - Bug 244124 - New support for loading

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/queries/LoadGroup.java

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* tware - added to allow pluggage archive factory

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/config/SystemProperties.java

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*

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* Sei Syvalta - Bug 330237 - Tables are created in unspecified order (DDL creation)

* 01/06/2011-2.3 Guy Pelletier

* - 312244: can't map optional one-to-one relationship using @PrimaryKeyJoinColumn

- * 04/05/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 3)
 - * 09/09/2011-2.3.1 Guy Pelletier
 - * - 356197: Add new VPD type to MultitenantType
 - * 11/10/2011-2.4 Guy Pelletier
 - * - 357474: Address primaryKey option from tenant discriminator column
 - * 14/05/2012-2.4 Guy Pelletier
 - * - 376603: Provide for table per tenant support for multitenant applications
 - * 31/05/2012-2.4 Guy Pelletier
 - * - 381196: Multitenant persistence units with a dedicated emf should allow for DDL generation.
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/schemaframework/DefaultTableGenerator.java
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- * James Sutherland - initial API and implementation
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/RoundRobinPartitioningMetadata.java
 *

- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/HashPartitioningMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/ReplicationPartitioningMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/PinnedPartitioningMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/RangePartitionMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/PartitioningMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/AbstractPartitioningMetadata.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/ValuePartitionMetadata.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/UnionPartitioningMetadata.java

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* Markus Karg - initial contribution (bug 284657)

* SAP AG - finalized implementation (bug 327778)

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jar/org/eclipse/persistence/platform/database/MaxDBPlatform.java

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* 10/29/2010-2.2 Michael O'Brien

* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through

* 05/24/2011-2.3 Guy Pelletier

* - 345962: Join fetch query when using tenant discriminator column fails.

*****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/databaseaccess/DatasourceCall.java

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* tware - 1.0RC1 - OSGI refactor

* 12/23/2008-1.1M5 Michael O'Brien

* - 253701: set persistenceInitializationHelper so EntityManagerSetupImpl.undeploy() can clear the JavaSECMPIInitializer

*****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/PersistenceProvider.java

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* tware - extension to allow ArchiveFactories to be pluggable

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* James Sutherland - initial impl
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/18/2010-2.2 Guy Pelletier
* - 300458: EclipseLink should throw a more specific exception than NPE
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column lenght not
in sync between @Column and @JoinColumn
* 10/28/2010-2.2 Guy Pelletier
* - 3223850: Primary key metadata issues
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/PrimaryKeyMetadata.java

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* 05/24/2011-2.3 Guy Pelletier
* - 345962: Join fetch query when using tenant discriminator column fails.

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/expressions/ParameterExpression.java

*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/expressions/Expression.java

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* Contributors:
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/MultitenantPrimaryKeyMapping.java

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* gonural - initial
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* rbarkhouse - 2011 April 11 - 2.3 - Initial implementation
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlVirtualAccessMethods.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eclipselink_persistence_map_1.0.xsd
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/toplink-object-persistence_11_1_1.xsd
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/20/2008-1.0 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access

Type support

* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 11/06/2009-2.0 Guy Pelletier
* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/BasicMapAccessor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/DirectAccessor.java

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* Contributors:
* bdoughan - August 5/2009 - 2.0 - Initial implementation

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- * Oracle - initial API and implementation from Oracle TopLink
- * 07/19/2011-2.2.1 Guy Pelletier
- * - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
- * 04/09/2012-2.4 Guy Pelletier
- * - 374377: OrderBy with ElementCollection doesn't work
- * 14/05/2012-2.4 Guy Pelletier
- * - 376603: Provide for table per tenant support for multitenant applications
- * 25/05/2012-2.4 Guy Pelletier
- * - 354678: Temp classloader is still being used during metadata processing

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/DirectCollectionMapping.java

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/CastExpression.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/TableVariableDeclarationBNF.java
- *
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/TableExpression.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/DatabaseTypeQueryBNF.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/InternalColumnExpressionBNF.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/UnionClauseBNF.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/EclipseLinkBasicRefactoringTool.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/ExtractExpressionBNF.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/BasicRefactoringTool.java
- *
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/DefaultBasicRefactoringTool.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/RegexpExpressionFactory.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/FunctionExpressionFactory.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/GenericSemanticValidatorHelper.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/FunctionExpressionStateObject.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/FunctionItemBNF.java
- *
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/FromSubqueryResolver.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/OnClause.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/CollectionValuedPathExpressionFactory.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/SemanticValidatorHelper.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/RegexpExpressionBNF.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/ITypeHelper.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/TableExpressionBNF.java

*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/InExpressionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/DefaultParameterTypeVisitor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/TableVariableDeclaration.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/FunctionExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/GenericQueryBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/InternalAggregateFunctionBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/UnionClause.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/JPQLQueryDeclaration.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/jpql/EclipseLinkSemanticValidatorHelper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/GenericTypeHelper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/OnClauseFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/jpql/TableDeclaration.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/TableVariableDeclarationFactory.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/CastExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/CastExpressionBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/RangeDeclarationBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/DefaultRefactoringDelta.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/AbstractRefactoringTool.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/RegexpExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/TextEdit.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/FunctionExpressionBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/DefaultTextEdit.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/DatabaseType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/UnionClauseFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/ExtractExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/ExtractExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/EclipseLinkParameterTypeVisitor.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/RefactoringDelta.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/RangeDeclarationFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/jpql/SubqueryDeclaration.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/JoinCollectionValuedPathExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/TableExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/LikeExpressionEscapeCharacterBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/OnClauseBNF.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/parser/DatabaseTypeFactory.java

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jar/org/eclipse/persistence/jpa/rs/util/metadatasources/LinkMetadataSource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/util/PreLoginMappingAdapter.java

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 *   Gordon Yorke - VM managed entity detachment
 *   Eduard Bartsch, SAP - Fix for Bug 351186 - ConcurrentModificationException Exception in PropertiesHandler
 */
```

Found in path(s):

```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/sessions/PropertiesHandler.java
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 *   - 218084: Implement metadata merging functionality between mapping files
 *   09/23/2008-1.1 Guy Pelletier
 *   - 241651: JPA 2.0 Access Type support
 *   12/12/2008-1.1 Guy Pelletier
 *   - 249860: Implement table per class
 *   inheritance support.
 *   01/28/2009-2.0 Guy Pelletier
 *   - 248293: JPA 2.0 Element Collections (part 1)
 *   02/06/2009-2.0 Guy Pelletier
 *   - 248293: JPA 2.0 Element Collections (part 2)
 *   04/24/2009-2.0 Guy Pelletier
 *   - 270011: JPA 2.0 MappedById support
 *   06/09/2009-2.0 Guy Pelletier
 *   - 249037: JPA 2.0 persisting list item index
 */
```

- * 06/16/2009-2.0 Guy Pelletier
- * - 277039: JPA 2.0 Cache Usage Settings
- * 01/19/2010-2.1 Guy Pelletier
- * - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
- * 06/18/2010-2.2 Guy Pelletier
- * - 300458: EclipseLink should throw a more specific exception than NPE
- * 07/16/2010-2.2 Guy Pelletier
- * - 260296: mixed access with no Transient annotation does not result in error
- * 07/23/2010-2.2 Guy Pelletier
- * - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
- * 10/15/2010-2.2 Guy Pelletier
- * - 322008:

Improve usability of additional criteria applied to queries at the session/EM

- * 10/28/2010-2.2 Guy Pelletier
- * - 3223850: Primary key metadata issues
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/05/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 3)
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 8)
- * 07/11/2011-2.4 Guy Pelletier
- * - 343632: Can't map a compound constraint because of exception:
- * The reference column name [y] mapped on the element [field x]
- * does not correspond to a valid field on the mapping reference
- * 14/05/2012-2.4 Guy Pelletier
- * - 376603: Provide for table per tenant support for multitenant applications

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/MetadataLogger.java

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* Contributors:

- * tware - March 25/2008 - 1.0M6 - Initial implementation

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jar/org/eclipse/persistence/annotations/CopyPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/CloneCopyPolicy.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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*   Oracle - initial API and implementation from Oracle TopLink
*   Vikram Bhatia - added method for releasing temporary LOBs after conversion
*****
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jar/org/eclipse/persistence/platform/database/oracle/Oracle8Platform.java
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*
* Contributors:
*   Oracle - initial API and implementation from Oracle TopLink
*   03/19/2009-2.0 Michael O'Brien - 266912: JPA 2.0 Metamodel API (part
*       of the JSR-317 EJB 3.1 Criteria API)
*   08/17/2010-2.2 Michael O'Brien
*   - 322585: Login the session on the first call to getMetamodel() or getCriteriaBuilder()
*
*       after EMF predeploy() completes. This will do a DB login that calls
*       initializeDescriptors() so we have real Classes and not just class names for
*       MappedSuperclass metamodel descriptors. This is provided for
*       implementations that use the metamodel before the 1st EntityManager creation.
*****
/
```

* Login will continue to only be called in EM deploy for users
* that do not request the Metamodel
* 11/17/2010-2.2 Guy Pelletier
* - 329008: Support dynamic context creation without persistence.xml
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/EntityManagerFactoryDelegate.java
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*
* Contributors:
* mmacivor - June 24/2009 - 1.0 - Initial implementation
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/DomToXMLStreamWriter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/record/XMLStreamWriterRecord.java
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*
* Contributors:
* mmacivor - 2.4.2 Initial Implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/ByteArraySource.java

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- *
- * Contributors:
- * Oracle - initial API and implementation from Oracle TopLink
- * 06/30/2010-2.1.1 Michael O'Brien
- * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
- * Move JMX MBean generic registration code up from specific platforms
- * see <http://wiki.eclipse.org/EclipseLink/DesignDocs/316513>

Found in path(s):

- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/was/WebSpherePlatform.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/jboss/JBossPlatform.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/glassfish/GlassfishPlatform.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/wls/WebLogicPlatform.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/sunas/SunAS9ServerPlatform.java

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- *
- * Contributors:
- * tware - initial API check-in for MappedKeyMapContainerPolicy
- * 14/05/2012-2.4 Guy Pelletier
- * - 376603: Provide for table per tenant support for multitenant applications

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/foundation/MapComponentMapping.java

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* Contributors:

* Oracle - initial API and implementation from Oracle TopLink
* dmccann - Nov 4/2008 - 1.1 - changed class to interface

*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/SDODataFactory.java

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* Contributors:

* ssmith

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/deployment/osgi/CompositeEnumeration.java

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* Contributors:

* tware - initial implementation for Extensibility feature

*

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/descriptors/VirtualAttributeMethodInfo.java

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* Contributors:

* tware - added WebSphere_7_Platform for EclipseLink 2.0

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/platform/WebSphere_7_0_PlatformConfig.java

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* Contributors:

* Gordon Yorke - Initial Contribution

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* Contributors:
*   Oracle - initial API and implementation from Oracle TopLink
*   08/23/2010-2.2 Michael O'Brien
*   - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
*           warn if expected "_persistence_*_vh" method not found
*           instead of throwing NPE during deploy validation.
*           Note: SDO overrides this class so an override of getMethodReturnType
*           will also need an override in SDO.
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/descriptors/MethodAttributeAccessor.java

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*   gonural - initial
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jar/org/eclipse/persistence/jpa/rs/util/list/QueryList.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/MatrixParameters.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/config/ConfigDefaults.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

```

jar/org/eclipse/persistence/jpa/rs/util/list/LinkList.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/QueryParameters.java
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* Contributors:
* ailitchev - 2010/08/19
* Bug 322960 - TWO TESTS IN CUSTOMFEATURESJUNITTESTSUITE FAILED WITH 11.2.0.2
DRIVER

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/helper/JDK16Platform.java
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* Contributors:
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/descriptors/MultitenantPrimaryKeyAccessor.java
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* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * 10/15/2010-2.2 Guy Pelletier
- * - 322008: Improve usability of additional criteria applied to queries at the session/EM
- * 04/01/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 2)
- * 05/24/2011-2.3 Guy Pelletier
- * - 345962:

Join fetch query when using tenant discriminator column fails.

- * 08/18/2011-2.3.1 Guy Pelletier
- * - 355093: Add new 'includeCriteria' flag to Multitenant metadata
- * 09/09/2011-2.3.1 Guy Pelletier
- * - 356197: Add new VPD type to MultitenantType

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/DescriptorQueryManager.java

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* Contributors:

- * tware, ssmith = 1.0 - Generic JPA deployment (OSGI, EE, SE)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/deployment/JPAInitializer.java

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* Contributors:

- * Andrei Ilitchev (Oracle), March 7, 2008
- * - New file introduced for bug 211300.
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping file
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3

Guy Pelletier

- * - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/transformers/WriteTransformerMetadata.java

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- * Oracle - initial API and implementation from Oracle TopLink
- * dminsky - added countOccurrencesOf(Object, List) API
- * 08/23/2010-2.2 Michael O'Brien
- * - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
* warn if expected "_persistence_*_vh" method not found

*

instead of throwing NPE during deploy validation.

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/helper/Helper.java

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 * Contributors:
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 * 06/16/2009-2.0 Guy Pelletier
 * - 277039: JPA 2.0 Cache Usage Settings
 *****/

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 jar/org/eclipse/persistence/internal/jpa/deployment/SEPersistenceUnitInfo.java
 *
 /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/jpa/deployment/xml/parser/PersistenceContentHandler.java
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 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 06/09/2009-2.0 Guy Pelletier
 * - 249037: JPA 2.0 persisting list item index
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with
 shared schema support (part 1)
 *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/jpa/metadata/columns/MetadataColumn.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/jpa/metadata/columns/ColumnMetadata.java
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- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 05/23/2008-1.0M8 Guy Pelletier
- * - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
- * 12/10/2008-1.1 Michael O'Brien

- * - 257606: Add orm.xml schema validation true/(false) flag support in persistence.xml
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 05/14/2010-2.1 Guy Pelletier
- * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- * 04/01/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 2)
- * 09/20/2011-2.3.1 Guy Pelletier
- * - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.

*****/

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/MetadataProcessor.java

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/jpa/orm_1_0.xsd

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/factories/DescriptorCustomizer.java

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* 09/14/2011-2.3.1 Guy Pelletier

* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/SybasePlatform.java

*

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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* @author mobrien
* @since EclipseLink 1.1 enh# 248748
* 10/20/2008-1.1M4 Michael O'Brien
* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
* see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/248748></link>
* 27/01/2009-1.1.1
Michael O'Brien
* - 262583: removal of category arg get*EclipseLinkLogLevel functions - rev 3308
* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms
* see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>
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*
* Contributors:
* James Sutherland (Oracle) - initial API and implementation
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/RangePartition.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/RangePartitioningPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/ValuePartitioningPolicy.java

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jar/org/eclipse/persistence/internal/libraries/asm/xml/asm-xml.dtd
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* <http://www.eclipse.org/org/documents/edl-v10.php>.

*

* Contributors:

* 03/19/2009-2.0 dclarke - initial API start
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
* of the Metamodel implementation for EclipseLink 2.0 release involving
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part
of the JSR-317 EJB 3.1 Criteria API)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metamodel/BasicTypeImpl.java

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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class
inheritance support.

* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association Override Join Table
- * 09/29/2009-2.0 Guy Pelletier
- * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
- * 11/02/2009-2.0 Michael O'Brien
- * - 266912: JPA 2.0 Metamodel support for 1:m as 1:1 in DI 96
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- * 09/03/2010-2.2 Guy Pelletier
- * - 317286: DB column lenght not in sync between @Column and @JoinColumn
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support

(part 1)

- * 05/17/2012-2.3.3 Arron Ferguson
- * - 379829: NPE Thrown with OneToOne Relationship

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/OneToManyAccessor.java

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- * Oracle - initial API and implementation from Oracle TopLink
- * 05/19/2010-2.1 ailitchev - Bug 244124 - Add Nested FetchGroup

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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 10/29/2010-2.2 Michael O'Brien
* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/ParameterDelimiterType.java
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*
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* tware - initial implemenation as part of JPA 2.0 RI
*****/

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*
* Contributors:
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 02/25/2009-2.0 Guy Pelletier

- * - 265359: JPA 2.0 Element Collections - Metadata processing portions
 - * 03/27/2009-2.0 Guy Pelletier
 - * -
 - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
 - * 04/03/2009-2.0 Guy Pelletier
 - * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
 - * 06/02/2009-2.0 Guy Pelletier
 - * - 278768: JPA 2.0 Association Override Join Table
 - * 06/09/2009-2.0 Guy Pelletier
 - * - 249037: JPA 2.0 persisting list item index
 - * 06/25/2009-2.0 Michael O'Brien
 - * - 266912: change MappedSuperclass handling in stage2 to pre process accessors
in support of the custom descriptors holding mappings required by the Metamodel
 - * 09/29/2009-2.0 Guy Pelletier
 - * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
 - * 11/06/2009-2.0 Guy Pelletier
 - * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
 - * 03/08/2010-2.1 Guy Pelletier
 - * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
 - * 04/27/2010-2.1 Guy Pelletier
 - * - 309856: MappedSuperclasses
from XML are not being initialized properly
 - * 05/31/2010-2.1 Guy Pelletier
 - * - 314941: multiple joinColumns without referenced column names defined, no error
 - * 06/14/2010-2.2 Guy Pelletier
 - * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
 - * 09/03/2010-2.2 Guy Pelletier
 - * - 317286: DB column lenght not in sync between @Column and @JoinColumn
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
 - * 06/03/2011-2.3.1 Guy Pelletier
 - * - 347563: transient field/property in embeddable entity
 - * 04/09/2012-2.4 Guy Pelletier
 - * - 374377: OrderBy with ElementCollection doesn't work
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ElementCollectionAccessor.java
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* Contributors:

* 03/24/2011-2.3 Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 1)

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/TenantDiscriminatorColumn.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/TenantDiscriminatorColumns.java

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*

* 04/30/2009-2.0 Michael O'Brien

* - 266912: JPA 2.0 Metamodel API (part of Criteria API)

* Add Set<RelationalDescriptor> mappedSuperclassDescriptors

- * to support the Metamodel API
- * 06/17/2009-2.0 Michael O'Brien
- * - 266912: change mappedSuperclassDescriptors Set to a Map
- * keyed on MetadataClass - avoiding the use of a hashCode>equals
- * override on RelationalDescriptor, but requiring a contains check prior to a put
- * 09/23/2009-2.0 Michael O'Brien
- * - 266912: Add metamodelIdClassMap to store IdClass types for exclusive use by the IdentifiableTypeImpl class in the JPA 2.0 Metamodel API
- * 06/30/2011-2.3.1 Guy Pelletier
- * - 341940: Add disable/enable allowing native queries
- * 09/09/2011-2.3.1 Guy Pelletier
- * - 356197: Add new VPD type to MultitenantType
- * 09/14/2011-2.3.1 Guy Pelletier
- * - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
- * 14/05/2012-2.4 Guy Pelletier
- * - 376603: Provide for table per tenant support for multitenant applications
- * 31/05/2012-2.4 Guy Pelletier
- * - 381196: Multitenant persistence units with a dedicated emf should allow for DDL generation.

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/Project.java

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* Contributors:

* David McCann - 2.4 - Initial implementation

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* Contributors:

- * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/01/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 2)
- * 04/05/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 3)
- * 09/09/2011-2.3.1 Guy Pelletier
 - * - 356197: Add new VPD type to MultitenantType
- * 11/10/2011-2.4 Guy Pelletier
 - * - 357474: Address primaryKey option from tenant discriminator column

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/TenantDiscriminatorColumnMetadata.java
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* Contributors:

- * Gordon Yorke - Part of the Cache Interceptor feature. (ER 219683)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlProperties.java

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* dmccann - Nov 4/2008 - 1.1 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/delegates/SDODataFactoryDelegator.java

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* Contributors:

* ailichev - Uni-directional OneToMany

* 07/19/2011-2.2.1 Guy Pelletier

* - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/UnidirectionalOneToManyMapping.java

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* - rbarkhouse - 07 October 2011 - 2.4 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/IDResolver.java

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* cdelahun - Bug 214534: added JMS Cache Coordination for publishing only

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*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/coordination/jms/JMSTopicRemoteConnection.java

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*   05/16/2008-1.0M8 Guy Pelletier
*   - 218084: Implement metadata merging functionality between mapping files
*   03/27/2009-2.0 Guy Pelletier
*   - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
*   04/27/2010-2.1 Guy Pelletier
*   - 309856:
*   MappedSuperclasses from XML are not being initialized properly
*   03/24/2011-2.3 Guy Pelletier
*   - 337323: Multi-tenant with shared schema support (part 1)
*   11/10/2011-2.4 Guy Pelletier
*   - 357474: Address primaryKey option from tenant discriminator column
*****/

```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/converters/StructConverterMetadata.java
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*
* Contributors:
*   ailichev - Bug 244124 - Added AttributeGroup base class for nesting
*   09 Jan 2013-2.5 Gordon Yorke
*   - 397772: JPA 2.1 Entity Graph Support
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

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jar/org/eclipse/persistence/queries/AttributeGroup.java

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*   Oracle - initial API and implementation from Oracle TopLink
*   02/11/2009-1.1 Michael O'Brien
*   - 259993: As part 2) During mergeClonesAfterCompletion()
*   If the the acquire and release threads are different
*   switch back to the stored acquire thread stored on the mergeManager.
*****/

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Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/MergeManager.java

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*
* Contributors:
*   dclarke - Metadata driven Dynamic Persistence
*
*****/

```

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/MetadataDynamicClassWriter.java

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- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 02/08/2012-2.4 Guy Pelletier
- * - 350487:

JPA 2.1 Specification defined support for Stored Procedure Calls

*****/

Found in path(s):

- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/SQLResultSetMappingMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/EntityResultMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedStoredProcedureQueryMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedPLSQLStoredProcedureQueryMetadata.java

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* Contributors:

- * mmacivor - October 16th 2009 - 2.0 - Initial implementation

*****/

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/mappings/BidirectionalPolicy.java

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*
* Contributors:
* rbarkhouse - May 26 2008 - 1.0M8 - Initial implementation
* rbarkhouse - July 14 2008 - 1.1 - Modified to enable wrappers to have multiple associated QNames
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/types/SDOWrapperType.java

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*
* Contributors:
* tware - initial API check-in for MappedKeyMapContainerPolicy
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/foundation/MapKeyMapping.java

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Contributors:

- Oracle - initial API and implementation from Oracle TopLink
- tware - update version number to 2.0
- pkrogh- update version number to 2.1
- agoerler - add Net weaver support

*****/

-->

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eclipselink_sessions_2.1.xsd

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- * Oracle - initial API and implementation from Oracle TopLink
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 04/02/2009-2.0 Guy Pelletier
- * - 270853: testBeerLifeCycleMethodAnnotationIgnored within xml merge testing need to be relocated
- * 01/05/2010-2.1

Guy Pelletier

* - 211324: Add additional event(s) support to the EclipseLink-ORM.XML Schema

* 04/27/2010-2.1 Guy Pelletier

* - 309856: MappedSuperclasses from XML are not being initialized properly

* 07/15/2010-2.2 Guy Pelletier

* -311395 : Multiple lifecycle callback methods for the same lifecycle event

* 12/01/2010-2.2 Guy Pelletier
* - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/listeners/EntityListenerMetadata.java
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* Oracle - initial API and implementation from Oracle TopLink
*
* 05/28/2008-1.0M8 Andrei Ilitchev
* - 224964: Provide support for Proxy Authentication through JPA.
* Added setProperties method to be used in case properties couldn't be passed to createEM method.
* The properties now set to the uow's parent - not to the
uow itself.
* In case there's no active transaction, close method now releases uow.
* UowImpl was amended to allow value holders instantiation even after it has been released,
* the parent ClientSession is released, too.
* 03/19/2009-2.0 Michael O'Brien
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
* 07/13/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/EntityManagerImpl.java
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* Contributors:
* - rbarkhouse - 27 January 2012 - 2.3.3 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/CollectionGroupingElementNodeValue.java
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*
* Contributors:
* Gordon Yorke - ER 214661 - VM Managed Entity Detachment
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/config/ReferenceMode.java
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*
* Contributors:
* mmacivor - August 4th/2010 - 2.2 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlTransformation.java

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* bdoughan - May 6/2008 - 1.0M7 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDOChangeSummaryType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDOObjectType.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDODataObjectType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDODataType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDOPropertyType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDOOpenSequencedType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDOTypeType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/types/SDOXMLHelperLoadOptionsType.java

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* Andrei Ilitchev (Oracle), March 7, 2008

* - New file introduced for bug 211300.

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jar/org/eclipse/persistence/annotations/WriteTransformer.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/annotations/WriteTransformers.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/annotations/ReadTransformer.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/annotations/Transformation.java

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* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
*****/

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* - 218084: Implement metadata merging functionality between mapping files
* 07/15/2010-2.2 Guy Pelletier
* -311395 : Multiple lifecycle callback methods for the same lifecycle event
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/listeners/EntityClassListener.java

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* 12/02/2010-2.2 Guy Pelletier
* - 251554: ExcludeDefaultMapping annotation needed
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 *   Oracle - initial API and implementation from Oracle TopLink
 *   08/23/2010-2.2 Michael O'Brien
 *     - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
 *       warn if expected "_persistence_*_vh" method not found
 *       instead of throwing NPE during deploy validation.
 */
```

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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/ForeignReferenceMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/foundation/AbstractTransformationMapping.java
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 *   05/16/2008-1.0M8 Guy Pelletier
 *     - 218084: Implement metadata merging functionality between mapping file
 *   09/23/2008-1.1 Guy Pelletier
 *     - 241651: JPA 2.0 Access Type support
 *   10/01/2008-1.1 Guy Pelletier
 *     - 249329: To remain JPA 1.0 compliant,
 *       any new JPA 2.0 annotations should be referenced by name
 *   04/09/2010-2.1 Guy Pelletier
 *     - 307050: Add defaults for access methods of a VIRTUAL access type
 *   04/27/2010-2.1 Guy Pelletier
 *     - 309856: MappedSuperclasses from XML are not being initialized properly
 */
```

- * 12/01/2010-2.2 Guy Pelletier
 - * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
 - * 07/03/2011-2.3.1 Guy Pelletier
 - * - 348756: m_cascadeOnDelete boolean should be changed to Boolean
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLPersistenceUnitDefaults.java
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 * Contributors:
 * matt.macivor - added as part of fix for SDO 2.1.1 TCK typeHelper test cases
 *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/metadata/TypeStringConverter.java
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 * Contributors:
 * Guy Pelletier (Oracle), February 28, 2007
 * - New file introduced for bug 217880.
 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 04/27/2010-2.1 Guy Pelletier
 * - 309856: MappedSuperclasses from XML are not being initialized properly
 * 08/17/2010-2.2

Guy Pelletier

- * - 252280: inconsistency in change-tracking xml
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/changetracking/ChangeTrackingMetadata.java

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- * Blaise Doughan - 2.4.0 - initial implementation

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*

* Contributors:

- * dmccann - Mar 2/2009 - 2.0 - Initial implementation

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/schema/SchemaModelGenerator.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/schema/SchemaModelGeneratorProperties.java

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*
* Contributors:
*   Oracle - initial API and implementation from Oracle TopLink
*   05/16/2008-1.0M8 Guy Pelletier
*     - 218084: Implement metadata merging functionality between mapping files
*   09/23/2008-1.1 Guy Pelletier
*     - 241651: JPA 2.0 Access Type support
*   10/01/2008-1.1 Guy Pelletier
*     - 249329: To remain JPA 1.0 compliant,
any new JPA 2.0 annotations should be referenced by name
*   03/29/2010-2.1 Guy Pelletier
*     - 267217: Add Named Access Type to EclipseLink-ORM
*   04/09/2010-2.1 Guy Pelletier
*     - 307050: Add defaults for access methods of a VIRTUAL access type
*   06/22/2010-2.2 Guy Pelletier
*     - 308729: Persistent Unit deployment exception when mappedsuperclass has no annotations but has lifecycle
callbacks
*   12/01/2010-2.2 Guy Pelletier
*     - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataMethod.java

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* Contributors:
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*   02/08/2012-2.4 Guy Pelletier

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* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/SQLResult.java
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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/NullCapableValue.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/descriptors/MethodBasedFieldTransformation.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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jar/org/eclipse/persistence/descriptors/changetracking/ObjectChangeTrackingPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/attachment/XMLAttachmentUnmarshaller.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 jar/org/eclipse/persistence/tools/file/FileUtil.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 jar/org/eclipse/persistence/mappings/querykeys/QueryKey.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/queries/JPQLCall.java
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/coordination/CommandManager.java
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jaxb/JAXBMarshalListener.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 jar/org/eclipse/persistence/internal/oxm/schema/model/Include.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/descriptors/DescriptorEventManager.java
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 jar/org/eclipse/persistence/internal/oxm/XMLRelationshipMappingNodeValue.java
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 jar/org/eclipse/persistence/platform/xml/jaxp/JAXPParser.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/identitymaps/LinkedCacheKey.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/oxm/XMLSequencedObjectBuilder.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/sessions/changesets/AggregateCollectionChangeRecord.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* arnaud nauwynck, tware - Bug 274975 - ensure custom sql calls are only translated once

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping file

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*

* Contributors:

* mmacivor - Jan 27/2009 - 1.1 - Initial implementation
* bdoughan - Mar 31/2009 - 2.0 - Majority of behaviour ported to JAXBList
* bdoughan - May 19/2010 - 2.1 - Added support for inverse references

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 - *
 - * Contributors:
 - * Oracle - initial API and implementation from Oracle TopLink
 - * tware - 1.0RC1 - refactor for OSGi
 - * zhao jianyong - Bug 324627 - JarList stream is not explicitly closed after use in JavaSECMPIInitializer
- *****/

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- * Oracle - initial API and implementation from Oracle TopLink
- * 10/20/2008-1.1M4 Michael O'Brien
- * - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
- * see <http://wiki.eclipse.org/EclipseLink/DesignDocs/248748>
- * 11/06/2008-1.1M5 Michael O'Brien
- * - 248746: Add getModuleName()
- implementation and new getApplicationName()
- * 05/07/2009-1.1.1 Dave Brosius
- * - 265755: [PATCH] Set application name correctly
- * 06/30/2010-2.1.1 Michael O'Brien
- * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
- * Move JMX MBean generic registration code up from specific platforms
- * see <http://wiki.eclipse.org/EclipseLink/DesignDocs/316513>
- * 10/18/2010-2.1.2 Michael O'Brien
- * - 328006: Refactor WebLogic MBeanServer registration to use active
- * WLS com.bea server when multiple instances returned
- * see
- http://wiki.eclipse.org/EclipseLink/DesignDocs/316513#DI_4:_20100624:_Verify_correct_MBeanServer_av

ailable_when_running_multiple_MBeanServer_Instances</link>

* 01/01/2011-2.2 Michael O'Brien
* - 333160: ModuleName string extraction code does not handle -1 not found index in 1 of 3 cases
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* Oracle - Dec 2008 Proof-of-concept

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/IExternalForm.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/IEntity.java

*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/IMappedSuperclass.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/IConstructor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/IQuery.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/IEmbeddable.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/util/filter/NullFilter.java
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* Contributors:
* bdoughan - August 7/2009 - 2.0 - Initial implementation
*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/ChoiceUnmarshalContext.java
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* Denise Smith - EclipseLink 2.3 - Initial Implementation
*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlNameTransformer.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/oxm/XMLNameTransformer.java

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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 07/13/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* corteggiano, Frank Schwarz, Tom Ware - Fix for bug Bug 320254 - EL 2.1.0 JPA: Query with hint
eclipselink.batch
* and org.eclipse.persistence.exceptions.QueryException.queryHintNavigatedNonExistantRelationship
* 10/29/2010-2.2 Michael O'Brien
* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/QueryHintsHandler.java

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* Contributors:

* David McCann - December 09, 2011 - 2.4 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/sessions/factories/OracleObjectTypeWrapper.java

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* Contributors:
*   01/28/2009-2.0 Guy Pelletier
*     - 248293: JPA 2.0 Element Collections (part 1)
*   03/27/2009-2.0 Guy Pelletier
*     - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/MapKeyConvert.java

```

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* Contributors:
*   bdoughan - July 29/2009 - 2.0 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jaxb/JAXBElementConverter.java

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* Blaise Doughan - 2.2 - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/dynamic/metadata/Metadata.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/record/ValidatingMarshalRecord.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/deferred/CompositeMappingContentHandler.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/dynamic/metadata/SchemaMetadata.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/dynamic/metadata/OXMMetadata.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/deferred/CompositeCollectionMappingContentHandler.java

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*

* Contributors:

* 03/26/2008-1.0M6 Guy Pelletier

* - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema

* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping files

* 02/06/2009-2.0 Guy Pelletier

* - 248293: JPA 2.0 Element Collections (part 2)

* 03/27/2009-2.0

Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

* 05/1/2009-2.0 Guy Pelletier

* - 249033: JPA 2.0 Orphan removal

* 09/29/2009-2.0 Guy Pelletier

* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne

* 04/27/2010-2.1 Guy Pelletier

* - 309856: MappedSuperclasses from XML are not being initialized properly

* 06/14/2010-2.2 Guy Pelletier

* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides

* 09/03/2010-2.2 Guy Pelletier

- * - 317286: DB column length not in sync between @Column and @JoinColumn
- * 01/25/2011-2.3 Guy Pelletier
- * - 333913: @OrderBy and <order-by/> without arguments should order by primary
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/05/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 3)

*****/

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/VariableOneToOneAccessor.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/jpql/JPQLQueryContext.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/Resolver.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/ResolverVisitor.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/list/MultiResultQueryList.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/list/SimpleHomogeneousList.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/list/SingleResultQueryList.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/metadatasources/JavaLangMetadatasource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/list/MultiResultQueryListItem.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/metadatasources/JavaUtilMetadatasource.java
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/**

* INTERNAL:
* Indicate whether app. server should unwrap connection
* to use lob locator.
* No need to unwrap connection because
* writeLob method doesn't use oracle proprietary
classes.
*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/Oracle10Platform.java
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*   dclarke, mnorman - Dynamic Persistence
*   http://wiki.eclipse.org/EclipseLink/Development/Dynamic
*   (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)
*
*   11/10/2011-2.4 Guy Pelletier
*   - 357474: Address primaryKey option from tenant discriminator column
*****/

```

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/dynamic/DynamicTypeBuilder.java

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*   mmacivor - April 25/2008 - 1.0M8 - Initial implementation
*   bdoughan - July 17/2009 - 2.0 - Refactored to extend JAXBElement
*****/

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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/WrappedValue.java

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* dmccann - August 6/2009 - 2.0 - Initial implementation

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* - 337323: Multi-tenant with shared schema support (part 1)

* 09/09/2011-2.3.1 Guy Pelletier

* - 356197: Add new VPD type to MultitenantType

* 14/05/2012-2.4 Guy Pelletier

* - 376603: Provide for table per tenant support for multitenant applications

*****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/MultitenantType.java

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* cdelahun - Bug 214534: added as a public helper for JMS RCM message processing

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* 06/08/2008-1.0M9 Andrei Ilitchev

* - New file introduced for bug 235433: Can't customize ConnectionPolicy through JPA.

*****/

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* Oracle - initial API and implementation from Oracle TopLink
* 08/15/2008-1.0.1 Chris Delahunt
* - 237545: List attribute types on OneToMany using @OrderBy does not work with attribute change tracking
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/OrderedListContainerPolicy.java
*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/ListContainerPolicy.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/descriptors/PersistenceObjectInstantiationPolicy.java

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* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 01/06/2011-2.3 Guy Pelletier
* - 371453: JPA Multi-Tenancy in Bidirectional
OneToOne Relation throws ArrayIndexOutOfBoundsException
*****/

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*

* Contributors:
* tware, ssmith - OSGi Persistence provider
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/osgi/PersistenceProvider.java

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* Contributors:

* dmccann - September 15/2009 - 1.2 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/SDOHelper.java

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* Mark Wolochuk - Bug 321041 ConcurrentModificationException on getFromIdentityMap() fix

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/identitymaps/IdentityMapManager.java

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* 05/09/2011 Andrei Ilitchev (Oracle) - initial API and implementation

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*

* Contributors:

* 01/19/2010-2.1 Guy Pelletier

* - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema

* 03/24/2011-2.3 Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/FetchGroupMetadata.java

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* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping files

* 08/27/2008-1.1 Guy Pelletier

* - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema

- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 10/01/2008-1.1 Guy Pelletier
- * - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
- * 12/12/2008-1.1 Guy Pelletier
- * - 249860: Implement table per class inheritance support.
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 09/29/2009-2.0 Guy Pelletier
- * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 03/29/2010-2.1 Guy Pelletier
- * - 267217: Add Named Access Type to EclipseLink-ORM
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 05/14/2010-2.1 Guy Pelletier
- * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- * 08/19/2010-2.2 Guy Pelletier
- * - 282733: Add plural converter annotations
- * 09/03/2010-2.2 Guy Pelletier
- * - 317286: DB column length not in sync between @Column and @JoinColumn
- * 09/16/2010-2.2 Guy Pelletier
- * - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
- * 12/01/2010-2.2 Guy Pelletier
- * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
- * 01/04/2011-2.3 Guy Pelletier
- * - 330628: @PrimaryKeyJoinColumn(...) is not working equivalently to @JoinColumn(..., insertable = false, updatable = false)
- * 01/25/2011-2.3 Guy Pelletier
- * - 333913: @OrderBy and <order-by/> without arguments should order by primary
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/05/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 3)
- * 07/11/2011-2.4 Guy Pelletier
- * - 343632: Can't map a compound constraint because of exception:
- * The reference column name [y] mapped on the element [field x]
- * does not correspond to a valid field on the mapping reference

* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/MetadataAccessor.java
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* Oracle - initial API and implementation from Oracle TopLink
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197:
Add new VPD type to MultitenantType
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/AbstractSession.java
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* Contributors:

* James Sutherland - initial API and implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/ucp/UCPDataPartitioningCallback.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/ucp/GridLinkDataPartitioningCallback.java

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* 14/05/2012-2.4 Guy Pelletier

* - 376603: Provide for table per tenant support for multitenant applications

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*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/OneToOneMapping.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/XMLDescriptor.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/server/ClientSession.java

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* cdelahun - Bug 214534: added message for JMSPublishingHelper error checking

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*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/RemoteCommandManagerException.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/JPAQueryBuilder.java

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* tware
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* egwin - Changed buildNumber to buildDate. Added buildRevision,  
* buildType, getBuildDate(), getBuildRevision(), getBuildType(),  
* getVersionString(), printVersionString(), and main()  
*/
```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/Version.java
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* rbarkhouse - 16 Jan 2009 - 1.1 - Initial implementation  
*/
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/dataobjects/OpenSequencedTypeImpl.java
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* - rbarkhouse - 08 February 2012 - 2.3.3 - Initial implementation
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*
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*   06/18/2009 Andrei Ilitchev
*   - JPA 2.0 - OrderedList support.
*****/

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* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)

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* Blaise Doughan = 2.1 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/XMLReaderAdapter.java

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*   Oracle - initial API and implementation from Oracle TopLink
*   @author mobrien
*   @since EclipseLink 1.1 enh# 248748
*   10/20/2008-1.1M4 Michael O'Brien
*   - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
*   see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/248748</link>
*   06/11/2008-1.1M5
Michael O'Brien
*   - 248746: Add getModuleName() implementation and new getApplicationName()
*   01/27/2009-1.1.1 Michael O'Brien
*   - 262583: removal of category arg get*EclipseLinkLogLevel functions - rev 3308
*   03/31/2009-1.1.1 Michael O'Brien
*   - 270533: CCE on DefaultSessionLog cast narrowed for getLogFilename()
*   06/30/2010-2.1.1 Michael O'Brien
*   - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
*   Move JMX MBean generic registration code up from specific platforms
*   see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/weblogic/WebLogicRuntimeServices.java

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* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/EmbeddableMapping.java

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* - rbarkhouse - 24 February 2012 - 2.3.3 - Initial implementation

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* Contributors:

* dmccann - September 17/2009 - 1.2 - Initial implementation

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/compiler/JAXBMetadataLogger.java

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* Contributors:

* Denise Smith - 2.3.3

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/namespaces/MapNamespacePrefixMapper.java

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* Contributors:

* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping file
* 05/23/2008-1.0M8 Guy Pelletier
* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema

- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 10/01/2008-1.1 Guy Pelletier
- * - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
- * 12/12/2008-1.1 Guy Pelletier
- * - 249860: Implement table per class inheritance support.
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 07/06/2011-2.3.1 Guy Pelletier
- * - 349906: NPE while using eclipselink in the application

*****/

/**

* INTERNAL:

* Process the metadata from the <entity-mappings>
level except for the

* classes themselves. They will be processed afterwards and controlled
* by the MetadataProcessor. Note: this method does a few things of
* interest. It not only adds metadata to the project but it will also
* override (that is EclipseLink-ORM-XML-->JPA-XML && JPA-XML-->Annotation)
* the necessary metadata and log messages to the user. A validation
* exception could also be thrown. See the related processing methods for
* more details.

*

* Any XML metadata of the types processed below should call these methods.
* That is, as an example, a converter can be found at the entity-mappings
* and entity level. Therefore you must ensure that those from levels other
* than the entity-mappings call these methods as well to ensure consistent
* metadata processing (and behavior).

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLEntityMappings.java

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* <http://www.eclipse.org/org/documents/edl-v10.php>.

*

* Contributors:

* 03/19/2009-2.0 dclarke - initial API start

* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support

* of the Metamodel implementation for EclipseLink 2.0 release involving

* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors

* - 266912: JPA 2.0 Metamodel API (part

of the JSR-317 EJB 3.1 Criteria API)

* 29/10/2009-2.0 mobrien - m:1 and 1:m relationships require special handling

* in their internal m:m and 1:1 database mapping representations.

*

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_96:_20091019:_Attribute.getPersiste
[ntAttributeType.28.29_treats_ManyToOne_the_same_as_OneToOne](http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_96:_20091019:_Attribute.getPersiste)

* 16/06/2010-2.2 mobrien - 316991: Attribute.getJavaMember() requires reflective getMethod call

* when only getMethodName is available on accessor for attributes of Embeddable types.

*

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_95:_20091017:_Attribute.getJavaMe
[mber.28.29_returns_null_for_a_BasicType_on_a_MappedSuperclass_because_of_an_uninitialized_accessor](http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_95:_20091017:_Attribute.getJavaMe)

* 09/08/2010-2.2 mobrien - 322166: If attribute is defined on a lower level MappedSuperclass (and not on a superclass)

* - do not attempt a reflective call on a superclass

* - see design issue #25

*

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_25:_20090616:_Inherited_parameteri
[zed_generics_for_Element_Collections_.28Basic.29](http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_25:_20090616:_Inherited_parameteri)

* 11/10/2011-2.4 Guy Pelletier

* - 357474: Address primaryKey option from tenant discriminator column

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metamodel/AttributeImpl.java

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*

* Contributors:

* mnorman - convert DBWS to use new EclipseLink public Dynamic Persistence APIs

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRDynamicEntity_CollectionWrapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRDynamicEntity.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRClassWriter.java
```

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*
* Contributors:
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 03/29/2010-2.1 Guy Pelletier
* - 267217: Add Named Access Type to EclipseLink-ORM
```

```
*****/
```

Found in path(s):

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/MetadataConstants.java
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*
* Contributors:
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 05/23/2008-1.0M8 Guy Pelletier
* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
* 06/20/2008-1.0 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 09/23/2008-1.1
```

Guy Pelletier

- * - 241651: JPA 2.0 Access Type support
- * 10/01/2008-1.1 Guy Pelletier
- * - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 06/25/2009-2.0 Michael O'Brien
- * - 266912: change MappedSuperclass handling in stage2 to pre process accessors
in support of the custom descriptors holding mappings required by the Metamodel
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 08/11/2010-2.2 Guy Pelletier
- * - 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship
from MappedSuperclass
- * 12/01/2010-2.2 Guy Pelletier
- * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
- * 12/02/2010-2.2 Guy Pelletier
- * - 251554: ExcludeDefaultMapping annotation needed
- * 12/02/2010-2.2 Guy Pelletier
- * - 324471: Do not default to VariableOneToOneMapping for interfaces unless a managed class implementing it
is found
- * 01/25/2011-2.3 Guy Pelletier
- * - 333488: Serializable attribute being defaulted to a variable one to one mapping and causing exception
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipseLink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataAnnotatedElement.java

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* Contributors:

- * David McCann - May 15, 2012 - 2.4 - Initial implementation

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/PLSQLCursorWrapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/plsql/PLSQLCursor.java

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* Contributors:

* mmacivor - April 25/2008 - 1.0M8 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/JaxbClassLoader.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856:

MappedSuperclasses from XML are not being initialized properly

* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/ConverterMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/AbstractConverterMetadata.java
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*
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*   06/09/2009-2.0 Guy Pelletier
*     - 249037: JPA 2.0 persisting list item index
*   04/27/2010-2.1 Guy Pelletier
*     - 309856: MappedSuperclasses from XML are not being initialized properly
*   03/24/2011-2.3 Guy Pelletier
*     - 337323: Multi-tenant with shared schema support (part 1)
*   04/05/2011-2.3 Guy Pelletier
*
*     - 337323: Multi-tenant with shared schema support (part 3)
*****/

```

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/OrderColumnMetadata.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/SetJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/SubQueryImpl.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/MapJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/AbstractQueryImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/JoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/CompoundSelectionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/ConstructorSelectionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/ListJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/PredicateImpl.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/SelectionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/BasicSetJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/CompoundExpressionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/BasicCollectionJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/InternalExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/BasicListJoinImpl.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/InImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/PathImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/RootImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/BasicMapJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/InternalSelection.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/FunctionExpressionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/querydef/CriteriaQueryImpl.java
*

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/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/ExpressionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/FromImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/CollectionJoinImpl.java
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* Oracle - initial API and implementation from Oracle TopLink  
* 11/13/2009-2.0 mobrien - 294765: MapKey keyType DirectToField processing  
* should return attributeClassification class in getMapKeyTargetType when  
* accessor.attributeField is null in the absence of a MapKey annotation  
*/
```

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/foundation/AbstractDirectMapping.java
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* ssmith = 1.1 - A ClassLoader that aggregates multiple ClassLoaders  
*/
```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/deployment/osgi/CompositeClassLoader.java
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jar/org/eclipse/persistence/jaxb/JAXBHelper.java

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*   05/16/2008-1.0M8 Guy Pelletier
*     - 218084: Implement metadata merging functionality between mapping files
*   04/27/2010-2.1 Guy Pelletier
*     - 309856: MappedSuperclasses from XML are not being initialized properly
*   03/24/2011-2.3 Guy Pelletier
*
*   - 337323: Multi-tenant with shared schema support (part 1)
*   25/05/2012-2.4 Guy Pelletier
*     - 354678: Temp classloader is still being used during metadata processing
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/VersionAccessor.java

```

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* <http://www.eclipse.org/org/documents/edl-v10.php>.

* Contributors:

- * 03/26/2008-1.0M6 Guy Pelletier
- * - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 05/04/2010-2.1 Guy Pelletier
- * - 309373: Add parent class attribute to EclipseLink-ORM
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/InterfaceAccessor.java

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* <http://www.eclipse.org/org/documents/edl-v10.php>.

* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * 12/30/2010-2.3 Guy Pelletier
- * - 312253: Descriptor exception with Embeddable on DDL gen

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/AggregateCollectionMapping.java

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*
* Contributors:
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/TenantTableDiscriminatorType.java

*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/TenantTableDiscriminator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/TablePerMultitenantPolicy.java

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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 02/11/2009-1.1 Michael O'Brien
* - 259993: As part 2) During mergeClonesAfterCompletion()
* If the the acquire and release threads are different
* switch back to the stored acquire thread stored on the mergeManager.
* tware, David Mulligan
- fix performance issue with releasing locks
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/helper/WriteLockManager.java

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*

* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * 07/15/2011-2.2.1 Guy Pelletier
- * - 349424: persists during an preCalculateUnitOfWorkChangeSet event are lost

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/remote/RemoteUnitOfWork.java

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*

* Contributors:

- * Oracle - Dec 2008

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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/helper/ComplexDatabaseType.java

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*

* Contributors:

- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly

* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
*****/

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/DerivedIdClassAccessor.java
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*
*
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractQueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/PersistenceResource.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/QueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/EntityResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractPersistenceResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractSingleResultQueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractEntityResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/SingleResultQueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/PersistenceUnitResource.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/PersistenceUnitResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractPersistenceUnitResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/resources/unversioned/QueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/resources/unversioned/EntityResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/resources/SingleResultQueryResource.java
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*  
* Contributors:  
*   Matt MacIvor - initial implementation (2.3.3)  
*/
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jar/org/eclipse/persistence/internal/oxm/record/namespaces/PrefixMapperNamespaceResolver.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/NamespacePrefixMapper.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/namespaces/NamespacePrefixMapperWrapper.java
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*  
* - Initial implementation  
*  
*/
```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/util/xmladapters/ReferenceAdapter.java

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*
* Contributors:
*   Oracle - initial API and implementation from Oracle TopLink
*   dclarke - Bug 294985: update of comments and addition of connection logging property
*   cdelahun - Bug 214534: added COORDINATION_JMS_REUSE_PUBLISHER property to enable JMS rcn
legacy behavior
*   04/01/2011-2.3 Guy Pelletier
*   - 337323: Multi-tenant with shared
schema support (part 2)
*   06/30/2011-2.3.1 Guy Pelletier
*   - 341940: Add disable/enable allowing native queries
*   09/20/2011-2.3.1 Guy Pelletier
*   - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.
*****/
/**
* The <code>"eclipselink.oracle.proxy-type"</code> property is used to
* specify proxy type that should be passed to
* OracleConnection.openProxySession method. Requires Oracle JDBC version
* 10.1.0.2 or later. Requires Oracle9Platform or later as a database
* platform (TARGET_DATABASE property value should be TargetDatabase.Oracle9
* or later).
* <p>
* Values:
* <ul>
* <li>oracle.jdbc.OracleConnection.PROXYTYPE_USER_NAME,
* <li>oracle.jdbc.OracleConnection.PROXYTYPE_DISTINGUISHED_NAME,
* <li>oracle.jdbc.OracleConnection.PROXYTYPE_CERTIFICATE.
* </ul>
* <p>
* Property values
corresponding to the specified type should be also
* provided:
* <ul>
* <li>oracle.jdbc.OracleConnection.PROXY_USER_NAME,
* <li>oracle.jdbc.OracleConnection.PROXY_DISTINGUISHED_NAME,
* <li>oracle.jdbc.OracleConnection.PROXY_CERTIFICATE.
* <p>
* Typically these properties should be set into EntityManager (either

```


* through createEntityManager method or using proprietary setProperties
* method on EntityManagerImpl) - that causes EntityManager to use proxy
* connection for writing and reading inside transaction. If proxy-type and
* the corresponding proxy property set into EntityManagerFactory then all
* connections created by the factory will be proxy connections.
*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/config/PersistenceUnitProperties.java

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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/columns/AttributeOverrideMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedQueryMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/columns/OverrideMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/converters/ConversionValueMetadata.java

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 *
 * Contributors:
 * 03/19/2009-2.0 dclarke - initial API start
 * 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
 * of the Metamodel implementation for EclipseLink 2.0 release involving
 * Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
 * - 266912: JPA 2.0 Metamodel API (part
 of the JSR-317 EJB 3.1 Criteria API)
 * 11/05/2009-2.0 mobrien - DI 86: MapKey support when only generics
 * are used to determine the keyType for an IdClass that used an embeddable
 * 11/10/2009-2.0 mobrien - DI 98: Use keyMapping on MappedKeyMappedContainerPolicy
 * keep workaround for bug# 294765 for Basic keyType when MapKey annotation not specified.
 * keep workaround for bug# 294811 for Entity, Embeddable, Transient keyType support
 * when MapKey name attribute not specified (MapContainerPolicy)
 * add BasicMap support via DirectMapContainerPolicy
 * 13/10/2009-2.0 mobrien - 294765 - fix allows removal of workaround for
 * when MapKey annotation not specified
 * 06/14/2010-2.1 mobrien - 314906: getJavaType should return the
 * collection javaType C in <X,C,V> of <X, Map<K,V>, V> instead off the elementType V
 *****/

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*
 /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/jpa/metamodel/MapAttributeImpl.java
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 * Contributors:
 * James Sutherland - initial design and implementation
 *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/annotations/DatabaseChangeNotificationType.java
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* Contributors:

* dclarke/tware - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipseLink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/PersistenceFactoryBase.java

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* Contributors:

* tware - contribution direct from Oracle TopLink

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jar/org/eclipse/persistence/internal/localization/DMSLocalization.java

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*

* Contributors:

* tware - added for EclipseLink 2.0 release

* 06/30/2010-2.1.1 Michael O'Brien

* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic

* Move JMX MBean generic registration code up from specific platforms

* see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/was/WebSphere_7_Platform.java

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* Contributors:

* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping files

* 06/20/2008-1.0 Guy Pelletier

* - 232975: Failure when attribute type is generic

* 08/27/2008-1.1 Guy Pelletier

* - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema

* 09/23/2008-1.1 Guy Pelletier

* - 241651: JPA 2.0 Access Type support

* 01/28/2009-2.0 Guy Pelletier

* - 248293: JPA 2.0 Element Collections (part 1)

* 02/06/2009-2.0 Guy Pelletier

* - 248293: JPA 2.0 Element Collections (part 2)

* 02/25/2009-2.0 Guy Pelletier

* - 265359: JPA 2.0 Element Collections - Metadata processing portions

* 03/27/2009-2.0 Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

* 04/03/2009-2.0 Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

* 04/24/2009-2.0 Guy Pelletier

* - 270011: JPA 2.0 MappedById support

* 06/02/2009-2.0 Guy Pelletier

* - 278768: JPA 2.0 Association Override Join Table

* 06/25/2009-2.0 Michael O'Brien

* - 266912: change MappedSuperclass handling in stage2 to pre process accessors

* in support of the custom descriptors holding mappings required by the Metamodel.

* We handle undefined parameterized generic types for a MappedSuperclass defined

* Map field by returning Void in this case.

* 09/29/2009-2.0 Guy Pelletier

* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne

- * 10/21/2009-2.0 Guy Pelletier
 - * - 290567: mappedbyid support incomplete
 - * 11/06/2009-2.0 Guy Pelletier
 - * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
 - * 01/22/2010-2.0.1 Guy Pelletier
 - * - 294361: incorrect generated table for element collection attribute overrides
 - * 01/26/2010-2.0.1 Guy Pelletier
 - * - 299893: @MapKeyClass does not work with ElementCollection
 - * 03/08/2010-2.1 Guy Pelletier
 - * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
 - * 03/29/2010-2.1 Guy Pelletier
 - * - 267217: Add Named Access Type to EclipseLink-ORM
 - * 04/09/2010-2.1 Guy Pelletier
 - * - 307050: Add defaults
for access methods of a VIRTUAL access type
 - * 04/27/2010-2.1 Guy Pelletier
 - * - 309856: MappedSuperclasses from XML are not being initialized properly
 - * 05/19/2010-2.1 Guy Pelletier
 - * - 313574: Lower case primary key column association does not work when upper casing flag is set to true
 - * 06/14/2010-2.2 Guy Pelletier
 - * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
 - * 07/05/2010-2.1.1 Guy Pelletier
 - * - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
 - * 08/20/2010-2.2 Guy Pelletier
 - * - 323252: Canonical model generator throws NPE on virtual 1-1 or M-1 mapping
 - * 09/03/2010-2.2 Guy Pelletier
 - * - 317286: DB column lenght not in sync between @Column and @JoinColumn
 - * 10/27/2010-2.2 Guy Pelletier
 - * - 328114: @AttributeOverride does not work with nested embeddables having attributes of the same name
 - * 12/01/2010-2.2 Guy Pelletier
 - * - 331234: xml-mapping-metadata-complete
overriden by metadata-complete specification
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
 - * 11/10/2011-2.4 Guy Pelletier
 - * - 357474: Address primaryKey option from tenant discriminator column
 - * 25/05/2012-2.4 Guy Pelletier
 - * - 354678: Temp classloader is still being used during metadata processing
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/MappingAccessor.java

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* tware - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/expressions/MapEntryExpression.java

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* Contributors:

* 01/19/2010-2.1 Guy Pelletier
* - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/FetchAttributeMetadata.java

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* Contributors:

* rbarkhouse - 2009-11-26 13:04:58 - 2.0 - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/mappings/XMLInverseReferenceMapping.java

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* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping file

* 05/23/2008-1.0M8 Guy Pelletier

* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema

* 12/01/2010-2.2 Guy Pelletier

* - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification

* 07/03/2011-2.3.1 Guy Pelletier

* - 348756: m_cascadeOnDelete boolean should be changed to Boolean

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLPersistenceUnitMetadata.java

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* 06/30/2010-2.1.1 Michael O'Brien

* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic

* Move JMX MBean generic registration code up from specific platforms

```

* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
* 07/15/2010-2.1.1 Michael O'Brien
*   - 316513: registration/deregistration mismatch for MBean Object name reg=- and dereg=- no more instance
already exists on redeploy
* 10/18/2010-2.1.2 Michael O'Brien
*   - 328006: Refactor WebLogic MBeanServer registration to use active
*     WLS com.bea server when multiple instances returned
* see
<link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513#DI\_4:\_20100624:\_Verify\_correct\_MBeanServer\_av
ailable\_when\_running\_multiple\_MBeanServer\_Instances</link>
* 01/01/2011-2.2 Michael O'Brien
*   - 333160: ModuleName string extraction code does not handle -1 not found index in 3 of 5 cases
* 11/01/2011-2.2 Michael O'Brien
*   - 333336: findMBeanServer() requires security API AccessController.doPrivileged()
*     private run method security block.
*****/

```

Found in path(s):

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/platform/server/JMXServerPlatformBase.java
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*   Oracle - initial API and implementation from Oracle TopLink
*   02/26/2009-2.0 Guy Pelletier
*     - 264001: dot notation for mapped-by and order-by
*   08/23/2010-2.2 Michael O'Brien
*     - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
*       warn if expected "_persistence_*_vh"
method not found
*       instead of throwing NPE during deploy validation.
*   07/19/2011-2.2.1 Guy Pelletier
*     - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
*   04/09/2012-2.4 Guy Pelletier
*     - 374377: OrderBy with ElementCollection doesn't work
*   14/05/2012-2.4 Guy Pelletier
*     - 376603: Provide for table per tenant support for multitenant applications
*****/

```


Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/CollectionMapping.java

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* dclarke/tware - initial

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/PersistenceContext.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/IdHelper.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 07/15/2008-1.0.1 Guy Pelletier
* - 240679: MappedSuperclass Id not picked when on get() method accessor
* 06/29/2009-2.0 Michael O'Brien
*
* - 266912: change MappedSuperclass handling in stage2 to pre process accessors
* in support of the custom descriptors holding mappings required by the Metamodel
* getClassForName is now public and referenced by MappingAccessor.getMapKeyReferenceClass()
* 11/06/2009-2.0 Guy Pelletier
* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/MetadataHelper.java

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* 03/19/2009-2.0 dclarke - initial API start
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
* of the Metamodel implementation for EclipseLink 2.0 release involving
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part
of the JSR-317 EJB 3.1 Criteria API)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/EmbeddableTypeImpl.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/jpql/Declaration.java

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*   03/24/2011-2.3 Guy Pelletier
*   - 337323: Multi-tenant with shared schema support (part 1)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 05/05/2011-2.3 Chris Delahunt

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/metadata/MetadataSourceAdapter.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/platform/NetWeaver_7_1_PlatformConfig.java

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/**

* <p>The <code>RecordConverter</code> interface allows conversion of an adapter
* specific record. This can be used with the <code>EISPlatform</code> to allow
* user code to convert between the
JCA-CCI Record used by the adapter and
* EclipseLink. This can also be used to convert a proprietary adapter record
* format or contents into XML, Mapped or Indexed data.

*

* @author James

* @since OracleAS TopLink 10<i>g</i> (10.0.3)

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/eis/RecordConverter.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant,
any new JPA 2.0 annotations should be referenced by name
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 04/03/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 03/08/2010-2.1 Michael O'Brien
* - 300051: JPA 2.0 Metamodel processing requires EmbeddedId validation moved higher from
EmbeddedIdAccessor.process() to MetadataDescriptor.addAccessor() so we
can better determine when to add the MAPPED_SUPERCLASS_RESERVED_PK_NAME
temporary PK field used to process MappedSuperclasses for the Metamodel API
during MetadataProject.addMetamodelMappedSuperclass()
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column length not in sync between @Column and @JoinColumn
* 12/17/2010-2.2 Guy Pelletier

- * - 330755: Nested embeddables can't be used as embedded ids
 - * 12/23/2010-2.3 Guy Pelletier
 - * - 331386: NPE when mapping chain of 2 multi-column relationships using JPA 2.0 and @EmbeddedId composite PK-FK
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
- *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/EmbeddedIdAccessor.java
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- * - 218084: Implement metadata merging functionality between mapping files
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 01/25/2011-2.3 Guy Pelletier
- * - 333913: @OrderBy and <order-by/> without arguments should order by primary

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataAccessibleObject.java
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- * 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support of the Metamodel implementation for EclipseLink 2.0 release involving Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
- * - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
- * 08/19/2009-2.0 mobrien - Extend Collection support
- *

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_59:_20090818:_PluralAttribute.elementType_not_set_for_non-lazy_instantiated_Collection_Attribute

- * 06/14/2010-2.1 mobrien - 314906: getJavaType should return the collection javaType C in <X,C,V> of <X, List<V>, V> instead off the elementType V
 - * 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation
- *****/

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* tware - add aliasing to AggregateNodes
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/record/JSONWriterRecord.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/json/JSONParser.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/MediaType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/json/JSONReader.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/json/JSONLexer.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/record/JSONFormattedWriterRecord.java

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*

* Contributors:

* James Sutherland - initial implementation

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/BatchFetch.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/xml/ORMContentHandler.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/BatchFetchType.java

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*

* Contributors:

* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping files

* 03/27/2009-2.0 Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

* 04/27/2010-2.1 Guy Pelletier

* - 309856: MappedSuperclasses from XML are not being initialized properly

* 03/24/2011-2.3 Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 1)

* 25/05/2012-2.4 Guy Pelletier

* - 354678: Temp classloader is still being used during metadata processing

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/MetadataConverter.java

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* Contributors:

- * dclarke/tware - initial
- * tware

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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/StreamingOutputMarshaller.java

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* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier
- *
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 02/08/2012-2.4 Guy Pelletier
- * - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/FieldResultMetadata.java

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* Contributors:

- * Oracle - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/nosql/NoSqlMetadata.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/structures/StructMetadata.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/structures/ArrayAccessor.java

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* Contributors:

* Oracle - initial API and implementation from Oracle TopLink

* 06/30/2010-2.1.1 Michael O'Brien

* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic

* Move JMX MBean generic registration code up from specific platforms

* add new isRuntimeServicesEnabledDefault()

*

see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/ServerPlatform.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/ServerPlatformBase.java

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- * - 218084: Implement metadata merging functionality between mapping files
- * 05/23/2008-1.0M8 Guy Pelletier
- * - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 12/12/2008-1.1 Guy Pelletier
- * - 249860: Implement table per class inheritance support.
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 06/16/2009-2.0 Guy Pelletier
- * - 277039: JPA 2.0 Cache Usage Settings
- * 06/25/2009-2.0 Michael O'Brien
- * - 266912: change MappedSuperclass handling in stage2 to pre process accessors
in support of the custom descriptors holding mappings required by the Metamodel
- * 09/24/2009-2.0 Michael O'Brien
- * - 266912: In initIdClass() store IdClass names for use by the Metamodel API
- * 10/21/2009-2.0 Guy Pelletier
- * - 290567: mappedbyid support incomplete
- * 12/2/2009-2.1 Guy Pelletier
- * - 296289: Add current annotation metadata support on mapped superclasses to EclipseLink-ORM.XML

Schema

- * 01/19/2010-2.1 Guy Pelletier
- * - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
- * 05/04/2010-2.1 Guy Pelletier
- * - 309373: Add parent class attribute to EclipseLink-ORM
- * 06/01/2010-2.1 Guy Pelletier
- * - 315195: Add new property to avoid reading XML during the canonical model generation
- * 06/09/2010-2.0.3 Guy Pelletier
- * - 313401: shared-cache-mode defaults to NONE when the element value is unrecognized
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- * 06/22/2010-2.2 Guy Pelletier
- * - 308729: Persistent Unit deployment exception when mappedsuperclass has no annotations but has lifecycle
callbacks
- * 07/05/2010-2.1.1 Guy Pelletier
- * - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
- * 08/04/2010-2.1.1 Guy Pelletier
- * - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
- * 10/15/2010-2.2 Guy Pelletier

- * - 322008: Improve usability of additional criteria applied to queries at the session/EM
 - * 10/28/2010-2.2 Guy Pelletier
 - * - 3223850: Primary key metadata issues
 - * 12/01/2010-2.2 Guy Pelletier
 - * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
 - * 03/08/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 8)
 - * 07/03/2011-2.3.1 Guy Pelletier
 - * - 348756: m_cascadeOnDelete boolean should be changed to Boolean
 - * 02/08/2012-2.4 Guy Pelletier
 - * - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/MappedSuperclassAccessor.java
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 * tware - initial
 */

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/JPARSEExceptionMapper.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/xmladapters/RelationshipLinkAdapter.java
 *
 /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/JPARSEException.java
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* tware - added as part of JPQL extensions for JPA 2.0

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* Contributors:

* tware, ssmith = 1.0 - Activator for EclipseLink persistence

* tware - updates to allow support of gemini project

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/osgi/Activator.java

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* bdoughan - Jan 27/2009 - 1.1 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBHelperContext.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBDataFactory.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBXMLHelper.java

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* James Sutherland = 1.0 - Initial contribution

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* Contributors:

* Mike Keith

*

* Patterned after:

* org.eclipse.persistence.platform.database.DB2MainframePlatform

*

* 09/14/2011-2.3.1 Guy Pelletier

* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU

*****/

Found in

path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/H2Platform.java

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* Contributors:

* 05/28/2008-1.0M8 Andrei Ilitchev
* - New file introduced for bug 224964: Provide support for Proxy Authentication through JPA.

*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/databaseaccess/ConnectionCustomizer.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/OracleJDBC_10_1_0_2ProxyConnectionCustomizer.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 05/23/2008-1.0M8 Guy Pelletier
* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
* 05/30/2008-1.0M8 Guy Pelletier

* - 230213: ValidationException when mapping to attribute in MappedSuperClass
* 06/20/2008-1.0M9 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 07/15/2008-1.0.1 Guy Pelletier

- * - 240679: MappedSuperclass Id not picked when on get() method accessor
- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 10/01/2008-1.1 Guy Pelletier
- * - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
- * 12/12/2008-1.1 Guy Pelletier
- * - 249860: Implement table per class inheritance support.
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/03/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0
- Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 04/30/2009-2.0 Michael O'Brien
- * - 266912: JPA 2.0 Metamodel API (part of Criteria API)
- * 06/16/2009-2.0 Guy Pelletier
- * - 277039: JPA 2.0 Cache Usage Settings
- * 06/25/2009-2.0 Michael O'Brien
- * - 266912: change MappedSuperclass handling in stage2 to pre process accessors
in support of the custom descriptors holding mappings required by the Metamodel.
processAccessType() is now public and is overridden in the superclass
- * 09/29/2009-2.0 Guy Pelletier
- * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
- * 10/21/2009-2.0 Guy Pelletier
- * - 290567: mappedbyid support incomplete
- * 12/2/2009-2.1 Guy Pelletier
- * - 296289: Add current annotation metadata support on mapped superclasses to EclipseLink-ORM.XML
- Schema
- * 12/18/2009-2.1 Guy Pelletier
- * - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 05/04/2010-2.1 Guy Pelletier
- * - 309373: Add parent class attribute to EclipseLink-ORM
- * 05/14/2010-2.1 Guy Pelletier
- * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- * 06/01/2010-2.1 Guy Pelletier
- * - 315195: Add new property to avoid reading XML during the canonical model generation
- * 06/09/2010-2.0.3 Guy Pelletier
- * - 313401: shared-cache-mode defaults to NONE when the element value is unrecognized
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides

- * 06/18/2010-2.2 Guy Pelletier
 - * - 300458: EclipseLink should throw a more specific exception than NPE
 - * 06/22/2010-2.2 Guy Pelletier
 - * - 308729: Persistent Unit deployment exception when mappedsuperclass has no annotations but has lifecycle callbacks
 - * 07/05/2010-2.1.1 Guy Pelletier
 - * - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
 - * 08/11/2010-2.2 Guy Pelletier
 - * - 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship from MappedSuperclass
 - * 09/03/2010-2.2 Guy Pelletier
 - * - 317286: DB column lenght not in sync between @Column and @JoinColumn
 - * 09/16/2010-2.2 Guy Pelletier
 - * - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
 - * 12/01/2010-2.2 Guy Pelletier
 - * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
 - * 01/04/2011-2.3 Guy Pelletier
 - * - 330628: @PrimaryKeyJoinColumn(...) is not working equivalently to @JoinColumn(..., insertable = false, updatable = false)
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
 - * 04/05/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 3)
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 8)
 - * 07/03/2011-2.3.1 Guy Pelletier
 - * - 348756: m_cascadeOnDelete boolean should be changed to Boolean
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/EntityAccessor.java

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- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping file

- * 11/06/2009-2.0 Guy Pelletier
- * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
- * 03/24/2011-2.3 Guy Pelletier

- * - 337323: Multi-tenant with shared schema support (part 1)
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 8)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/tables/TableMetadata.java

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- * Oracle - initial API and implementation from Oracle TopLink
- * 07/16/2009-2.0 Guy Pelletier
- * - 277039: JPA 2.0 Cache Usage Settings

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/ModifyAllQuery.java

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* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * 05/28/2008-1.0M8 Andrei Ilitchev.
- * - 224964: Provide support for Proxy Authentication through JPA.

- * No longer throws exception in case value holder for isolated class instantiated on the closed session.
- * Instead after the session is closed
it switches to a mode when it acquires write connection only for the duration of the query execution.
- * The idea is all the necessary customization will be applied to the resurrected connection again, and cleared afterwards -
- * may be expensive, but works and costs nothing unless actually used.
- * Moved setting of the accessor from getExecutionSession to executeCall because getExecutionSession is called sometimes
- * without the need for connection (like creating a row), and that used to cause an unnecessary
- * acquiring of the connection on the closed session.
- *

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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/ExclusiveIsolatedClientSession.java

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- * Oracle - initial API and implementation from Oracle TopLink
- * 10/15/2010-2.2 Guy Pelletier
- * - 322008: Improve usability of additional criteria applied to queries at the session/EM
- * 05/24/2011-2.3 Guy Pelletier
- * - 345962: Join fetch query when using tenant discriminator column fails.
- * 06/30/2011-2.3.1 Guy Pelletier
- * - 341940: Add disable/enable allowing native queries
- * 02/08/2012-2.4 Guy Pelletier
- * - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/QueryException.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/i18n/QueryExceptionResource.java

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*
* Contributors:
* 04/15/2008-1.0M7 Guy Pelletier
* - 226517: Add existence support to the EclipseLink-ORM.XML Schema
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/ExistenceType.java
*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/ExistenceChecking.java

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*
* Contributors:
* * 08/15/2008-1.0.1 Chris Delahunt
* - 237545: List attribute types on OneToMany using @OrderBy does not work with attribute change tracking
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/sessions/OrderedChangeObject.java

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- * Contributors:
- * Oracle - initial API and implementation from Oracle TopLink
- * James Sutherland - Update to HSQL 1.8.1 and LRG
- * 11/04/2010-2.2 Michael O'Brien
- * - 319592: HSQL 2.0.0 requires VARCHAR length specified
- * 09/14/2011-2.3.1 Guy Pelletier
- * - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU

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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/HSQLPlatform.java

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* Contributors:

- * mmacivor - Feb 06/2009 - Initial implementation

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- * and the Eclipse Distribution License is available at
- * <http://www.eclipse.org/org/documents/edl-v10.php>.

* Contributors:

- * @author mobrien
- * @since EclipseLink 2.1.1 enh# 316511
- * 06/30/2010-2.1.1 Michael O'Brien
- * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic

- * Move JMX MBean generic registration code up from specific platforms
- * see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>

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 - * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/jboss/ClassSummaryDetail.java
 - * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/glassfish/MBeanGlassfishRuntimeServices.java
 - * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/jboss/JBossRuntimeServices.java
 - * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/glassfish/MBeanGlassfishRuntimeServicesMBean.java
 - * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/jboss/MBeanJBossRuntimeServicesMBean.java
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- * Contributors:
- * Gordon Yorke - Initial implementation
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- * Contributors:

* rbarkhouse - 2009-04-14 - 2.0 - Initial implementation

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jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/DebugTreeNodeStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipaselink-2-4-2-sources-2-
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jar/org/eclipse/persistence/internal/libraries/antlr/runtime/IntStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipaselink-2-4-2-sources-2-
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jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/BaseTreeAdaptor.java
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jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/CommonTree.java
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jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/RewriteEarlyExitException.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/RewriteRuleElementStream.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/ParseTreeBuilder.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/DebugEventHub.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/misc/IntArray.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/MismatchedRangeException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/RemoteDebugEventSocketListener.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/EarlyExitException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/TraceDebugEventListener.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/MismatchedTokenException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/DebugTreeAdaptor.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/CommonErrorNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreeFilter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/TokenStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/DebugEventRepeater.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/ParseTree.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreePatternLexer.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/CommonTreeAdaptor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/CommonTokenStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreeRuleReturnScope.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/ANTLRReaderStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/DebugTreeParser.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/CharStream.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/DOTTreeGenerator.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/NoViableAltException.java
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* - 218084: Implement metadata merging functionality between mapping files
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
*
* - 337323: Multi-tenant with shared schema support (part 1)
* 03/28/2011-2.3 Guy Pelletier
* - 341152: From XML cache interceptor and query redirector metadata don't support package specification

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/QueryRedirectorsMetadata.java
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* bdoughan - June 25/2009 - 2.0 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/oxm/record/namespaces/UnmarshalNamespaceResolver.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/namespaces/UnmarshalNamespaceContext.java
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* 05/16/2008-1.0M8 Guy Pelletier  
* - 218084: Implement metadata merging functionality between mapping files  
* 07/23/2010-2.2 Guy Pelletier  
* - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema  
* 03/24/2011-2.3 Guy Pelletier  
* - 337323: Multi-tenant with shared schema support (part 1)  
*/
```

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/sequencing/SequenceGeneratorMetadata.java
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* Contributors:  
* rbarkhou - new Policy Config classes for XMLLogin XML Support  
*/
```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/sessions/factories/model/login/DocumentPreservationPolicyConfig.java
*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/login/IgnoreNewElementsOrderingPolicyConfig.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/login/RelativePositionOrderingPolicyConfig.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/login/NoDocumentPreservationPolicyConfig.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/login/DescriptorLevelDocumentPreservationPolicyConfig.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/login/AppendNewElementsOrderingPolicyConfig.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/login/XMLBinderPolicyConfig.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/login/NodeOrderingPolicyConfig.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/ManyValue.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/CollectionValue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/MapEntry.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/MapValue.java
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- * - 218084: Implement metadata merging functionality between mapping files
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element
- Collections (part 2)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 05/1/2009-2.0 Guy Pelletier
- * - 249033: JPA 2.0 Orphan removal
- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association Override Join Table
- * 09/29/2009-2.0 Guy Pelletier
- * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
- * 10/21/2009-2.0 Guy Pelletier
- * - 290567: mappedbyid support incomplete
- * 11/06/2009-2.0 Guy Pelletier
- * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
- * 11/25/2009-2.0 Guy Pelletier
- * - 288955: EclipseLink 2.0.0.v20090821-r4934 (M7) throws EclipseLink-80/41 exceptions if
- InheritanceType.TABLE_PER_CLASS is used
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 03/29/2010-2.1 Guy Pelletier
- * - 267217: Add Named Access
- Type to EclipseLink-ORM
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- * 08/11/2010-2.2 Guy Pelletier
- * - 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship
- from MappedSuperclass
- * 09/03/2010-2.2 Guy Pelletier
- * - 317286: DB column lenght not in sync between @Column and @JoinColumn
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 07/03/2011-2.3.1 Guy Pelletier
- * - 348756: m_cascadeonDelete boolean should be changed to Boolean

* 05/17/2012-2.3.3 Guy Pelletier
* - 379829: NPE Thrown with OneToOne Relationship
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/RelationshipAccessor.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/XPathQName.java
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* cdelahun - Bug 214534: added for JMSPublishingTransportManager configuration via session.xml

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/transport/JMSPublishingTransportManagerConfig.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/eventlistener/DatabaseEventListenerFactory.java

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- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant
with shared schema support (part 1)

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/tables/JoinTableMetadata.java

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- * 06/09/2009-2.0 Guy Pelletier
- * - 249037: JPA 2.0 persisting list item index
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant

with shared schema support (part 1)

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/DirectColumnMetadata.java

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- * 06/20/2008-1.0 Guy Pelletier
- * - 232975: Failure when attribute type is generic
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element

Collections (part 1)

- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 02/26/2009-2.0 Guy Pelletier
- * - 264001: dot notation for mapped-by and order-by
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/03/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 05/1/2009-2.0 Guy Pelletier
- * - 249033: JPA 2.0 Orphan removal
- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association Override Join Table
- * 06/09/2009-2.0 Guy Pelletier
- * - 249037: JPA 2.0 persisting list item index
- * 09/29/2009-2.0 Guy Pelletier
- * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
- * 11/06/2009-2.0 Guy Pelletier
- * - 286317: UniqueConstraint xml element is changing

(plus couple other fixes, see bug)

- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 03/29/2010-2.1 Guy Pelletier
- * - 267217: Add Named Access Type to EclipseLink-ORM
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- * 01/25/2011-2.3 Guy Pelletier
- * - 333913: @OrderBy and <order-by/> without arguments should order by primary
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/CollectionAccessor.java

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- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections
- (part 2)
- * 02/25/2009-2.0 Guy Pelletier
- * - 265359: JPA 2.0 Element Collections - Metadata processing portions
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 05/1/2009-2.0 Guy Pelletier
- * - 249033: JPA 2.0 Orphan removal
- * 06/02/2009-2.0 Guy Pelletier
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- * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
- * 10/21/2009-2.0 Guy Pelletier
- * - 290567: mappedbyid support incomplete
- * 11/23/2009-2.0 Guy Pelletier
- * - 295790: JPA 2.0 adding @MapsId to one entity causes initialization errors in other entities
- * 03/29/2010-2.1 Guy Pelletier
- * - 267217: Add Named Access Type
- to EclipseLink-ORM
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- * 07/05/2010-2.1.1 Guy Pelletier
- * - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
- * 08/04/2010-2.1.1 Guy Pelletier
- * - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
- * 08/20/2010-2.2 Guy Pelletier
- * - 323252: Canonical model generator throws NPE on virtual 1-1 or M-1 mapping

- * 08/25/2010-2.2 Guy Pelletier
- * - 309445: CanonicalModelProcessor process all files (minor correction to patch for bug above)
- * 09/03/2010-2.2 Guy Pelletier
- * - 317286: DB column lenght not in sync between @Column and @JoinColumn
- * 01/04/2011-2.3 Guy Pelletier
- * - 330628: @PrimaryKeyJoinColumn(...) is not working
equivalently to @JoinColumn(..., insertable = false, updatable = false)
- * 01/06/2011-2.3 Guy Pelletier
- * - 312244: can't map optional one-to-one relationship using @PrimaryKeyJoinColumn
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ObjectAccessor.java
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- * Contributors:
- * @author mobrien
- * @since EclipseLink 2.1.1 enh# 316512
- * 06/30/2010-2.1.1 Michael O'Brien
- * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
- * Move JMX MBean generic registration code up from specific platforms
- * see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/glassfish/GlassfishRuntimeServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/glassfish/ClassSummaryDetail.java
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* cdelahun - Bug 214534: added JMS Cache Coordination for publishing only

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/coordination/jms/JMSPublishingTransportManager.java

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* cdelahun - Bug 214534: changes for JMSPublishingTransportManager configuration via session.xml

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/SessionsFactory.java

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* Contributors:

* dclarke - Dynamic Persistence INCUBATION - Enhancement 200045

* <http://wiki.eclipse.org/EclipseLink/Development/Dynamic>

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/dynamic/DynamicIdentityPolicy.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/dynamic/JPADynamicTypeBuilder.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/dynamic/JPADynamicHelper.java

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* Contributors:

- * Denise Smith - November 2012

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/JSONWithPadding.java

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* Contributors:

- * gonural - initial

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/JPARSConfigurationExceptionMapper.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/EntityNotFoundExceptionMapper.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/TransactionRequiredExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/OptimisticLockExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/JPARSConfigurationException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/PessimisticLockExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/UnsupportedMediaTypeException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/QueryTimeoutExceptionMapper.java
*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/EntityExistsExceptionMapper.java

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* 10/28/2008-1.1 James Sutherland - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/ArrayListContainerPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/VectorContainerPolicy.java

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* Oracle - initial API and implementation from Oracle TopLink

* Vikram Bhatia - bug fix for releasing temporary LOBs after conversion
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
*****/

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in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/databaseaccess/DatabaseAccessor.java
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* @since EclipseLink 2.2 enh# 316511
* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms
* see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>

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* Denise Smith, Nov. 19, 2009
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* tware - added in fix for bug 277550

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* James Sutherland - allow for zero ids

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* dminsky - added writeFields API overriding behavior from Expression
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/EclipseLinkDeclarationResolver.java
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jar/org/eclipse/persistence/dynamic/EclipseLinkClassWriter.java

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 *   Gordon Yorke - Interceptor feature https://bugs.eclipse.org/bugs/show_bug.cgi?id=219683
 */
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 *   dmccann - Nov. 7/2008 - Added delegate key logic from AbstractHelperDelegator
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* 17/10/2008-1.1 Michael O'Brien
* - 251005: The default JNDI InitialContextFactory is modified from
* OC4J: oracle.j2ee.rmi.RMIInitialContextFactory to
* WebLogic: weblogic.jndi.WLInitialContextFactory
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in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* Contributors:
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* Dies Koper - avoid generating constraints on platforms that do not support constraint generation
* Dies Koper - add support for creating indices on tables
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 09/14/2011-2.3.1
Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
*****/

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jar/org/eclipse/persistence/tools/schemaframework/TableDefinition.java
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* mmacivor - March 10/2009 - Initial implementation

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* Contributors:

* Oracle - initial API and implementation from Oracle TopLink

* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping files

* 12/12/2008-1.1 Guy Pelletier

* - 249860: Implement table per class inheritance support.

* 02/06/2009-2.0 Guy Pelletier

* - 248293: JPA

2.0 Element Collections (part 2)

* 03/27/2009-2.0 Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

* 04/24/2009-2.0 Guy Pelletier

* - 270011: JPA 2.0 MappedById support

* 09/29/2009-2.0 Guy Pelletier

* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne

* 04/27/2010-2.1 Guy Pelletier

* - 309856: MappedSuperclasses from XML are not being initialized properly

* 06/14/2010-2.2 Guy Pelletier

* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides

* 03/24/2011-2.3 Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 1)

* 05/17/2012-2.3.3 Arron Ferguson

* - 379829: NPE Thrown with OneToOne Relationship

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

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*   Oracle - initial API and implementation from Oracle TopLink
*   dclarke Bug 244124: Enhanced weaving to support extended FetchGroup functionality
*   08/23/2010-2.2 Michael O'Brien
*   - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
*           warn if expected "_persistence_*_vh"
method not found
*           instead of throwing NPE during deploy validation.
*****/

```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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*   ailitchev - Bug 244124 in 2.1 - Add AttributeGroup for nesting and LoadGroup support
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/orm_2_0.xsd

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/persistence_2_0.xsd

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*
* Contributors:
* mmacivor November 17/2009 - 2.0 - Initial implementation

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/TypeMappingInfo.java

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*
* Contributors:
* 08/21/2009-2.0 Guy Pelletier
* - 267391: JPA 2.0 Cache Usage Settings

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/deployment/SEPersistenceUnitProperty.java

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*
* Contributors:
* tware, ssmith = 1.0 - bootstrap the deployment of Entities
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/deployment/osgi/OSGiInitializer.java
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* Contributors:
* rbarkhouse - 19 Jan 2009 - 1.1 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/dataobjects/OpenSequencedType.java
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*
* Contributors:
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier

- * - 248293: JPA 2.0 Element Collections (part 2)
- * 02/25/2009-2.0 Guy Pelletier
- * - 265359: JPA 2.0 Element Collections - Metadata processing portions
- * 03/27/2009-2.0 Guy Pelletier
- * -
- 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association Override Join Table
- * 11/06/2009-2.0 Guy Pelletier
- * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 03/29/2010-2.1 Guy Pelletier
- * - 267217: Add Named Access Type to EclipseLink-ORM
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 12/30/2010-2.3 Guy Pelletier
- * - 312253: Descriptor exception with Embeddable on DDL gen
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 07/03/2011-2.3.1 Guy Pelletier
- * - 348756: m_cascadeOnDelete boolean should be changed to Boolean
- * 25/05/2012-2.4 Guy Pelletier
- * - 354678:

Temp classloader is still being used during metadata processing

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/DirectCollectionAccessor.java
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- * <http://www.eclipse.org/org/documents/edl-v10.php>.
- *
- * Contributors:
- * 08/10/2009-2.0 Guy Pelletier
- * - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
- * 06/01/2010-2.1 Guy Pelletier
- * - 315195: Add new property to avoid reading XML during the canonical model generation
- * 08/25/2010-2.2 Guy Pelletier
- * - 309445: CannonicalModelProcessor

process all files

- * 11/23/2010-2.2 Guy Pelletier
- * - 330660: Canonical model generator throws ClassCastException when using package-info.java
- * 04/01/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 2)
- * 09/20/2011-2.3.1 Guy Pelletier
- * - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/MetadataMirrorFactory.java

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*

* Contributors:

- * Andrei Iltchev (Oracle), April 8, 2008
- * - New file introduced for bug 217168.
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 04/27/2010-2.1

Guy Pelletier

- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 25/05/2012-2.4 Guy Pelletier
- * - 354678: Temp classloader is still being used during metadata processing

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/PropertyMetadata.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping file
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier

*

- 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/tables/SecondaryTableMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/tables/CollectionTableMetadata.java

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* tware - initial API and implementation from for JPA 2.0 criteria API

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/expressions/ListExpressionOperator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/expressions/ArgumentListFunctionExpression.java

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* dclarke/tware - initial

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/PersistenceResource.java

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* rbarkhouse - 2011 May 09 - 2.3 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlVirtualAccessMethodsSchema.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlVirtualAccessMethodsSchema.java

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* Blaise Doughan - 2.3 - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

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jar/org/eclipse/persistence/internal/oxm/XPathPredicate.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/ExtendedContentHandler.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/metadata/MetadataSource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/metadata/MetadataSourceAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/metadata/XMLMetadataSource.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 08/27/2008-1.1 Guy Pelletier
* - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema
* 04/24/2009-2.0 Guy
Pelletier
* - 270011: JPA 2.0 MappedById support
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 10/21/2009-2.0 Guy Pelletier
* - 290567: mappedbyid support incomplete
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 08/04/2010-2.1.1 Guy Pelletier
* - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
*****/
```

Found in path(s):

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/IdAccessor.java
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 *   05/16/2008-1.0M8 Guy Pelletier
 *   - 218084: Implement metadata merging functionality between mapping files
 *   03/24/2011-2.3 Guy Pelletier
 *   - 337323: Multi-tenant with shared schema support (part 1)
 *   02/08/2012-2.4 Guy Pelletier
 *   - 350487:
 *   JPA 2.1 Specification defined support for Stored Procedure Calls
 *   25/05/2012-2.4 Guy Pelletier
 *   - 354678: Temp classloader is still being used during metadata processing
 */
```

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```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/queries/StoredProcedureParameterMetadata.java
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jar/org/eclipse/persistence/oxm/annotations/XmlProperties.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlParameter.java
*
```

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlNullPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlWriteTransformer.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlProperty.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlReadTransformer.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlTransformation.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlClassExtractor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlPaths.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlIsSetNullPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlWriteTransformers.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlAccessMethods.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlReadOnly.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlWriteOnly.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlCDATA.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/misc/LookaheadStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreeIterator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/RecognizerSharedState.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreeNodeStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/BufferedTreeNodeStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/CommonTreeNodeStream.java
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* Contributors:

```
* Oracle - initial API and implementation from Oracle TopLink
* 07/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 10/29/2010-2.2 Michael O'Brien
* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add
```

disable/enable allowing native queries

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/QueryHints.java

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* Contributors:

* 07/16/2009 Andrei Ilitchev
* - Bug 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/RelationTableMechanism.java

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*

* Contributors:

* Oracle - initial API and implementation from Oracle TopLink
* 07/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/descriptors/ObjectBuilder.java

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* Contributors:

- * 09/09/2011-2.3.1 Guy Pelletier
 - * - 356197: Add new VPD type to MultitenantType
- * 11/10/2011-2.4 Guy Pelletier
 - * - 357474: Address primaryKey option from tenant discriminator column
- * 14/05/2012-2.4 Guy Pelletier
 - * - 376603: Provide for table per tenant support for multitenant applications

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/MultitenantPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/SingleTableMultitenantPolicy.java

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*

* Contributors:

- * Denise Smith - Initial implementation June 12, 2009

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*
* Contributors:
*   rbarkhouse - 2009-11-25 14:23:25 - v2.0 - initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlInverseReference.java

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*   Oracle - initial API and implementation
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jar/org/eclipse/persistence/jpa/jpql/model/query/DeclarationStateObject.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/UpdateStatementStateObject.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/IEclipseLinkSimpleSelectExpressionStateObjectBuilder.java

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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/model/query/NotExpressionStateObject.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/DefaultRefactoringTool.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/model/AbstractNewValueStateObjectBuilder.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/jpa/jpql/model/DefaultJPQLQueryBuilder.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/model/EclipseLinkSelectExpressionStateObjectBuilder.java
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*  
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*   03/24/2011-2.3 Guy Pelletier  
*   - 337323: Multi-tenant with shared schema support (part 1)  
*   25/05/2012-2.4 Guy Pelletier  
*   - 354678: Temp classloader is still being used during metadata processing  
*/
```

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/ValuePartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/FieldPartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/RangePartitioningMetadata.java
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*  
* Contributors:  
*   03/29/2010-2.1 Guy Pelletier  
*   - 267217: Add Named Access Type to EclipseLink-ORM  
*/
```

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/descriptors/VirtualAttributeAccessor.java

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* Thomas Spiegl - fix for bug 324406

* 10/15/2010-2.2 Guy Pelletier

* - 322008: Improve usability of additional criteria applied to queries at the session/EM

*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/ExpressionQueryMechanism.java

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* tware - updates for JPA 2.0 specification

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* 07/25/2008-1.0 Michael OBrien

* - 242120: Let the DB exception in alterOnDatabase() propagate so as not to

* cause an infinite loop when ddl generation updates fail on a JTA DS

* 09/14/2011-2.3.1 Guy Pelletier

* - 357533: Allow

DDL queries to execute even when Multitenant entities are part of the PU

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/schemaframework/SequenceObjectDefinition.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/util/Traceable.java
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* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
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jar/org/eclipse/persistence/mappings/AggregateMapping.java
*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/foundation/AbstractCompositeObjectMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/converters/EnumTypeConverter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/foundation/AbstractCompositeCollectionMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/converters/ObjectTypeConverter.java
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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* @author mobrien
* @since EclipseLink 1.1 enh# 248748
* 10/20/2008-1.1M4 Michael O'Brien
* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
* see <http://wiki.eclipse.org/EclipseLink/DesignDocs/248748>
* 06/30/2010-2.1.1
Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms
* see <http://wiki.eclipse.org/EclipseLink/DesignDocs/316513>
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* bdoughan - Mar 27/2009 - 2.0 - Initial implementation
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* rbarkhouse - 2011 April 12 - 2.3 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/CacheUsageIndirectionPolicy.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/ResultSetType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataFactory.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/ResultSetConcurrency.java

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* minorman - May 2008: helpful superclass that handles Namespaces for project-Project's

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 * 07/19/2011-2.2.1 Guy Pelletier
 * - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
 * 25/05/2012-2.4 Guy Pelletier
 * - 354678: Temp classloader is still being used during metadata processing
 *****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/DirectMapMapping.java

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 * 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
 * of the Metamodel implementation for EclipseLink 2.0 release involving
 * Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
 * - 266912: JPA 2.0 Metamodel API (part
 of the JSR-317 EJB 3.1 Criteria API)
 * 07/06/2009-2.0 mobrien - Metamodel implementation expansion
 * - 282518: Metamodel superType requires javaClass set on custom
 * descriptor on MappedSuperclassAccessor.
 * 07/10/2009-2.0 mobrien - Adjust BasicType processing to handle non-Entity Java types
 * - 266912: As part of Attribute.getType() and specifically SingularAttribute.getBindableJavaType
 * set the appropriate elementType based on the mapping type.
 * 09/23/2009-2.0 mobrien - 266912: Implement hasSingleIdAttribute() and
 * all other 6 remaining methods for Id and Version support.
 * DI 70 - 77 and 56
 *
http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_74:_20090909:_Implement_IdentifierType.hasSingleIdAttribute.28.29
 * 10/14/2009-2.0 mobrien - 285512: managedType(clazz) now throws IAE again for
 * any clazz that resolves to a BasicType - use getType(clazz) in implementations instead

- * when you are expecting a BasicType
- * 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation
- * 08/06/2010-2.2 mobrien 303063 - handle null descriptor.javaClass passed from the metadata API
- * 03/06/2011-2.3 mobrien 338837 - Metamodel entity processing requires specified entities in persistence.xml
- * to avoid IllegalArgumentException when accessing an EntityType|EmbeddableType|ManagedType
- * "The type [null] is not the expected [EntityType] for the key class" will result in certain managed persistence contexts

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/MetamodelImpl.java

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- * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
- * Move JMX MBean generic registration code up from specific platforms
- * see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/JMXEnabledPlatform.java

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- * - 322008: Improve usability of additional criteria applied to queries at the session/EM

* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/JoinFieldMetadata.java
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* tware - initial implementation
* tware - implemenation of basic CRUD functionality
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/MappedKeyMapContainerPolicy.java
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* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
* of the Metamodel implementation for EclipseLink 2.0 release involving
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part
of the JSR-317 EJB 3.1 Criteria API)
* 06/14/2010-2.1 mobrien - 314906: getJavaType should return the
* collection javaType C in <X,C,V> of <X, Set<V>, V> instead off the elementType V

*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/SetAttributeImpl.java
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* Contributors:

* 05/19/2010-2.1 ailitchev - Bug 244124 - Add Nested FetchGroup
* 09 Jan 2013-2.5 Gordon Yorke
* - 397772: JPA 2.1 Entity Graph Support

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/AttributeItem.java

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* Contributors:
*   Oracle - initial API and implementation from Oracle TopLink
*   05/16/2008-1.0M8 Guy Pelletier
*   - 218084: Implement metadata merging functionality between mapping files
*   03/08/2010-2.1 Guy Pelletier
*   - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
*   05/04/2010-2.1 Guy Pelletier
*
*   - 309373: Add parent class attribute to EclipseLink-ORM
*   05/14/2010-2.1 Guy Pelletier
*   - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
*   01/25/2011-2.3 Guy Pelletier
*   - 333488: Serializable attribute being defaulted to a variable one to one mapping and causing exception
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataClass.java

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jar/org/eclipse/persistence/internal/libraries/asm/tree/package.html
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/package.html
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/signature/package.html
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/util/package.html
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/tree/analysis/package.html
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/commons/package.html

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*

* Contributors:

* Oracle - initial API and implementation from Oracle TopLink
* 05/24/2011-2.3 Guy Pelletier
* - 345962: Join fetch query when using tenant discriminator column fails.
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

*****/

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/databaseaccess/DatabaseCall.java
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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* Markus KARG - Added methods allowing to support stored procedure creation on SQLAnywherePlatform.
* tware - added implementation of computeMaxRowsForSQL
* Dies Koper (Fujitsu) - bug fix for printFieldUnique()
* Dies Koper (Fujitsu) - added methods to create/drop
indices
* Vikram Bhatia - added method for releasing temporary LOBs after conversion
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/databaseaccess/DatabasePlatform.java
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* mmacivor - June 05/2008 - 1.0 - Initial implementation

*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/mappings/converters/XMLRootConverter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/oxm/XMLInlineBinaryHandler.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/jaxb/compiler/ElementDeclaration.java

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* Matt MacIvor - 2.4 - Initial Implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/jaxb/CustomAccessorAttributeAccessor.java

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*

* Contributors:

* dclarke, mnorman - Dynamic Persistence

* <http://wiki.eclipse.org/EclipseLink/Development/Dynamic>

* (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)

* 14/05/2012-2.4 Guy Pelletier

* - 376603: Provide for table per tenant support for multitenant applications

*/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/dynamic/DynamicHelper.java

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 *

/opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/internal/localization/i18n/DMSLocalizationResource.java

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* bdoughan - June 24/2009 - 2.0 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/DOMInputSource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/XMLStreamReaderReader.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/XMLStreamReaderInputSource.java
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* James Sutherland - initial impl
* 05/14/2010-2.1 Guy Pelletier
* - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
* Hans Harz, Andrew Rustleund - Bug 324862 - IndexOutOfBoundsException in
* DatabaseSessionImpl.initializeDescriptors because @MapKey Annotation is not found.
* 04/21/2011-2.3 dclarke: Upgraded to support ASM 3.3.1
* 08/10/2011-2.3 Lloyd Fernandes : Bug 336133 - Validation error during processing on parameterized generic
OneToMany Entity relationship from MappedSuperclass
* 10/05/2012-2.4.1 Guy Pelletier
* - 373092: Exceptions using generics, embedded key and entity inheritance

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataAsmFactory.java

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jar/org/eclipse/persistence/internal/jpa/deployment/BeanValidationInitializationHelper.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/listeners/BeanValidationListener.java
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 *   10/15/2010-2.2 Guy Pelletier
 *   - 322008: Improve usability of additional criteria applied to queries at the session/EM
 */
```

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*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/exceptions/i18n/DescriptorExceptionResource.java
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*
*****/
/**
* Converts the current constant to one of the known versions, this means if the constant is
* { @link #DEFAULT_VERSION}, then it will be converted into the actual constant representing that
* version.
*
* @return
Either this same constant or the actual version constant
*/

```

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```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/jpql/spi/JPAVersion.java
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*   Oracle - initial API and implementation from Oracle TopLink
*   GYorke - non-bug update to set accessor in case of connection failure. Thi
*       will allow the retry code to function.
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/databaseaccess/DatasourceAccessor.java

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* 01/19/2010-2.1 Guy Pelletier
* - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
*****/

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*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/FetchAttribute.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/FetchGroup.java

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 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 09/23/2008-1.1 Guy Pelletier
 * - 241651: JPA 2.0 Access Type support
 * 10/01/2008-1.1 Guy Pelletier
 * - 249329: To remain JPA 1.0 compliant,
 any new JPA 2.0 annotations should be referenced by name
 * 12/01/2010-2.2 Guy Pelletier
 * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
 *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataField.java
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* Andrei Iltchev (Oracle), March 7, 2008
 * - New file introduced for bug 211300.
 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 02/06/2009-2.0 Guy Pelletier
 * - 248293: JPA 2.0 Element Collections (part 2)
 * 03/27/2009-2.0 Guy Pelletier
 * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
 * 04/27/2010-2.1 Guy Pelletier
 * - 309856: MappedSuperclasses from XML are not being initialized properly
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
 *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/TransformationAccessor.java

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* 05/26/2009-2.0 mobrien - API update  
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)  
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support  
* of the Metamodel implementation for EclipseLink 2.0 release involving  
* Map, ElementCollection and Embeddable types on MappedSuperclass  
descriptors  
* 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation  
* 11/10/2011-2.4 Guy Pelletier  
* - 357474: Address primaryKey option from tenant discriminator column  
*/
```

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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
jar/org/eclipse/persistence/internal/jpa/metamodel/SingularAttributeImpl.java
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*  
* Contributors:  
* dmccann - May 29/2009 - 2.0 - Initial implementation  
*/
```

Found in path(s):

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
jar/org/eclipse/persistence/internal/jaxb/JAXBSetMethodAttributeAccessor.java
```

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*

* Contributors:

- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/LobMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/TemporalMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/EnumeratedMetadata.java

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*

* Contributors:

- * bdoughan - January 7/2009 - 1.1 - Initial implementation

*****/

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/MappingNodeValue.java

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* Contributors:

* Rick Barkhouse - 2.1 - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaFieldImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/dynamic/DynamicJAXBContext.java

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*

* Contributors:

* 02/13/2013-2.5 Guy Pelletier

* - 397772: JPA 2.1 Entity Graph Support (XML support)

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/graphs/NamedEntityGraphMetadata.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/graphs/NamedSubgraphMetadata.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/graphs/NamedAttributeNodeMetadata.java

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- *
- * Contributors:
- * Oracle - initial API and implementation from Oracle TopLink
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 11/06/2009-2.0 Guy Pelletier
- * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 07/03/2011-2.3.1 Guy Pelletier
- * - 348756: m_cascadeOnDelete boolean should be changed to Boolean
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/mappings/CascadeMetadata.java
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* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- *
- * 05/28/2008-1.0M8 Andrei Ilitchev
- * - 224964: Provide support for Proxy Authentication through JPA.
- * Added updateConnectionPolicy method to support EXCLUSIVE_CONNECTION property.
- * Some methods, like setSessionEventListener called from deploy
- still used predeploy properties,
- * that meant it was impossible to set listener through createEMF property in SE case with an agent - fixed that.
- * Also if creating / closing the same emSetupImpl many times (24 in my case) "java.lang.OutOfMemoryError: PermGen space" resulted:
- * partially fixed partially worked around this - see a big comment in predeploy method.
- * 12/23/2008-1.1M5 Michael O'Brien
- * - 253701: add persistenceInitializationHelper field used by undeploy() to clear the JavaSECMPIInitializer
- * 10/14/2009-2.0 Michael O'Brien
- * - 266912: add Metamodel instance field as part of the JPA 2.0 implementation
- * 10/21/2009-2.0 Guy Pelletier

- * - 290567: mappedbyid support incomplete
 - * cdelahun - Bug 214534: changes to allow JMSPublishingTransportManager configuration through properties
 - * 05/14/2010-2.1 Guy Pelletier
 - * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
 - * 04/01/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 2)
 - * 06/30/2011-2.3.1 Guy Pelletier
 - * - 341940: Add disable/enable allowing native queries
 - * 09/20/2011-2.3.1 Guy Pelletier
 - * - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.
- *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/EntityManagerSetupImpl.java

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* Contributors:

- * 03/19/2009-2.0 dclarke - initial API start
- * 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
- * of the Metamodel implementation for EclipseLink 2.0 release involving
- * Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
- * - 266912: JPA 2.0 Metamodel API (part
- of the JSR-317 EJB 3.1 Criteria API)
- * 06/14/2010-2.1 mobrien - 314906: getJavaType should return the
- * collection javaType C in <X,C,V> of <X, List<V>, V> instead off the elementType V

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/ListAttributeImpl.java

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* Contributors:

* Gordon Yorke - Initial development

*

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* Oracle - initial API and implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/SimpleArithmeticExpressionBNF.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/InternalOrderByItemBNF.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/KeyResolver.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/BooleanPrimaryBNF.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/LengthExpressionFactory.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/util/iterator/NullListMutator.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/IdentificationVariableBNF.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/EclipseLinkJPQLGrammar2_4.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/InternalSqrtExpressionBNF.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/UpdateItemBNF.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/RangeVariableDeclaration.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/model/EclipseLinkActualJPQLQueryFormatter.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/AbsExpression.java
 *
 /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/ResultVariableBNF.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/JPQLGrammar1_0.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/CoalesceExpression.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/EntityTypeLiteral.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/spi/java/JavaFieldMapping.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/ScalarExpressionBNF.java
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/SimpleSelectClauseBNF.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/ValueExpression.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/CollectionMemberDeclarationBNF.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/EclipseLinkJPQLGrammar2_0.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/jpa/jpql/parser/JPQLStatementBNF.java
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/ArithmeticExpressionBNF.java
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 jar/org/eclipse/persistence/jpa/jpql/parser/OrExpressionFactory.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/spi/java/JavaType.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/LowerExpressionFactory.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/InternalConcatExpressionBNF.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/EclipseLinkContentAssistVisitor.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/ContentAssistProposals.java
 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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 * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/jpa/jpql/parser/ResultVariable.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/FullyQualifyPathExpressionVisitor.java
*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/TypeExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/AbstractTripleEncapsulatedExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/IType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/JPQLExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/FunctionsReturningNumericsBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/AndExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/spi/java/JavaTypeDeclaration.java
*

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/KeywordExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/InternalWhenClauseBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/SumFunctionFactory.java
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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* tware - updates for JPA 2.0 specification
*/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/NodeFactoryImpl.java
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*

* Contributors:

* Blaise Doughan - 2.4.2 - initial implementation

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/documentpreservation/AbstractDocumentPreservationPolicy.java

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*

* Contributors:

* dmccann - May 25/2009 - 2.0 - Initial implementation

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/schema/SchemaModelOutputResolver.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/JAXBSchemaOutputResolver.java

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*

* Contributors:

* Gordon Yorke - initial API and implementation

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/indirection/CacheBasedValueHolder.java

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*
* Contributors:
*   05/16/2008-1.0M8 Guy Pelletier
*   - 218084: Implement metadata merging functionality between mapping files
*   01/05/2010-2.1 Guy Pelletier
*   - 211324: Add additional event(s) support to the EclipseLink-ORM.XML Schema
*   07/15/2010-2.2 Guy Pelletier
*   -311395 : Multiple lifecycle callback methods for the same lifecycle
event
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/listeners/EntityListener.java

```

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* http://www.eclipse.org/org/documents/edl-v10.php.
*
* Contributors:
*   rick.barkhouse - added as part of fix for SDO 2.1.1 TCK 'sdoPathXSDQNameTest'
*****/

```

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```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/metadata/NamespaceURITransformer.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/metadata/QNameTransformer.java

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*

* Contributors:

* mmacivor - March 12/2009 - Initial implementation

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/javamodel/JavaConstructor.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/javamodel/reflection/JavaConstructorImpl.java

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*

* Contributors:

* Oracle - initial API and implementation from Oracle TopLink

* 07/16/2009-2.0 Guy Pelletier

* - 277039: JPA 2.0 Cache Usage Settings

* 10/15/2010-2.2 Guy Pelletier

* - 322008: Improve usability of additional criteria applied to queries at the session/EM

* 10/29/2010-2.2 Michael O'Brien

* - 325167: Make

reserved # bind parameter char generic to enable native SQL pass through

* 04/01/2011-2.3 Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 2)

* 05/24/2011-2.3 Guy Pelletier

* - 345962: Join fetch query when using tenant discriminator column fails.

* 06/30/2011-2.3.1 Guy Pelletier

* - 341940: Add disable/enable allowing native queries

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/queries/DatabaseQuery.java

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*
* Contributors:
*   03/19/2009-2.0 dclarke - initial API start
*   06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
*     of the Metamodel implementation for EclipseLink 2.0 release involving
*     Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
*   - 266912: JPA 2.0 Metamodel API (part
of the JSR-317 EJB 3.1 Criteria API)
*   07/06/2009-2.0 mobrien - 266912: Introduce IdentifiableTypeImpl between ManagedTypeImpl
*     - EntityTypeImpl now inherits from IdentifiableTypeImpl instead of ManagedTypeImpl
*     - MappedSuperclassTypeImpl now inherits from IdentifiableTypeImpl instead
*     of implementing IdentifiableType indirectly
*   07/16/2009-2.0 mobrien - 266912: implement getIdType() minus full composite key support
*
http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_47:_20090715:_Implement_Identifia
bleType.getIdType.28.29_for_composite_keys
*****/

```

Found in path(s):

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metamodel/EntityTypeImpl.java
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*
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*   dclarke/tware - initial implementation
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jar/org/eclipse/persistence/jpa/rs/PersistenceContextFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/PersistenceContextFactoryProvider.java
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* Contributors:

* James Sutherland - initial API and implementation from Oracle TopLink

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/helper/NonSynchronizedProperties.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/transaction/jotm/JotmTransactionController.java
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*

* Contributors:

* 03/27/2009-2.0 Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

* 04/03/2009-2.0 Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

* 11/06/2009-2.0 Guy Pelletier

* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see
bug)

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/MappedKeyMapAccessor.java

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* Contributors:
*   Denise Smith - April 21/2009 - 2.0 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/deferred/DescriptorNotFoundContentHandler.java
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*   05/16/2008-1.0M8 Guy Pelletier
*   - 218084: Implement metadata merging functionality between mapping files
*   06/09/2009-2.0 Guy Pelletier
*   - 249037: JPA 2.0 persisting list item index
*   09/03/2010-2.2 Guy Pelletier
*   - 317286: DB column lenght
not in sync between @Column and @JoinColumn
*   03/24/2011-2.3 Guy Pelletier
*   - 337323: Multi-tenant with shared schema support (part 1)
*****/

```

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```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/columns/RelationalColumnMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/columns/JoinColumnMetadata.java

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*  
* Contributors:  
* 03/08/2010 Andrei Ilchev  
* Bug 300512 - Add FUNCTION support to extended JPQL  
*****/
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jar/org/eclipse/persistence/internal/jpa/parsing/FuncNode.java
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*  
* Contributors:  
* James Sutherland - initial impl  
* 10/21/2009-2.0 Guy Pelletier  
* - 290567: mappedbyid support incomplete  
* 25/05/2012-2.4 Guy Pelletier  
* - 354678: Temp classloader is still being used during metadata processing  
*****/
```

Found in path(s):

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataAnnotation.java
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* Contributors:

- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 11/10/2011-2.4 Guy Pelletier
- * - 357474: Address primaryKey option from tenant discriminator column

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipseLink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/MultitenantIdAccessor.java

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- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 05/23/2008-1.0M8 Guy Pelletier
- * - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 04/30/2009-2.0 Michael O'Brien
- * - 266912: JPA 2.0 Metamodel API (part of Criteria API)
- * 06/16/2009-2.0 Guy Pelletier
- * - 277039: JPA 2.0 Cache Usage Settings
- * 06/17/2009-2.0 Michael O'Brien
- * - 266912: change mappedSuperclassDescriptors Set to a Map
keyed on MetadataClass - avoiding the use of a hashCode>equals

- * override on RelationalDescriptor, but requiring a contains check prior to a put
- * 06/25/2009-2.0 Michael O'Brien
- * - 266912: change MappedSuperclass handling in stage2 to pre process
- accessors
- * in support of the custom descriptors holding mappings required by the Metamodel
- * 08/11/2009-2.0 Michael O'Brien
- * - 284147: do not add a pseudo PK Field for MappedSuperclasses when
- * 1 or more PK fields already exist on the descriptor.
- * 10/21/2009-2.0 Guy Pelletier
- * - 290567: mappedbyid support incomplete
- * 11/13/2009-2.0 Guy Pelletier
- * - 293629: An attribute referenced from orm.xml is not recognized correctly
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 03/08/2010-2.1 Michael O'Brien
- * - 300051: JPA 2.0 Metamodel processing requires EmbeddedId validation moved higher from
- * EmbeddedIdAccessor.process() to MetadataDescriptor.addAccessor() so we
- * can better determine when to add the MAPPED_SUPERCLASS_RESERVED_PK_NAME
- * temporary PK field used to process MappedSuperclasses
- for the Metamodel API
- * during MetadataProject.addMetamodelMappedSuperclass()
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 05/14/2010-2.1 Guy Pelletier
- * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- * 06/09/2010-2.0.3 Guy Pelletier
- * - 313401: shared-cache-mode defaults to NONE when the element value is unrecognized
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- * 07/05/2010-2.1.1 Guy Pelletier
- * - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
- * 07/23/2010-2.2 Guy Pelletier
- * - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
- * 08/11/2010-2.2 Guy Pelletier
- * - 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship
- from MappedSuperclass
- * 09/03/2010-2.2 Guy Pelletier
- * - 317286: DB column length not in sync between @Column and @JoinColumn
- * 12/01/2010-2.2 Guy Pelletier
- * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
- * 12/02/2010-2.2 Guy Pelletier
- * - 251554: ExcludeDefaultMapping annotation needed
- * 12/02/2010-2.2 Guy Pelletier
- * - 324471: Do not default to VariableOneToOneMapping for interfaces unless a managed class implementing it
- is found
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/01/2011-2.3 Guy Pelletier

- * - 337323: Multi-tenant with shared schema support (part 2)
- * 08/09/2011
- * Masumi Ito, Fujitsu - Bug 351791 - NPE occurs on specifying two kinds of primary key generators on orm.xml
- * 09/09/2011-2.3.1 Guy Pelletier
- * - 356197: Add new VPD type to MultitenantType
- * 09/20/2011-2.3.1 Guy Pelletier

- * - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.
- * 02/08/2012-2.4 Guy Pelletier
- * - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/MetadataProject.java

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* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * Zoltan NAGY & tware - updated support for MaxRows
- * 11/01/2010-2.2 Guy Pelletier
- * - 322916: getParameter on Query throws NPE
- * 11/09/2010-2.1 Michael O'Brien
- * - 329089: PERF: EJBQueryImpl.setParameterInternal() move indexOf check inside non-native block
- * 02/08/2012-2.4 Guy Pelletier
- * - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/StoredProcedureQueryImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/QueryImpl.java

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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/09/2009-2.0 Guy Pelletier
* - 249037: JPA 2.0 persisting list item index
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses
from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/columns/PrimaryKeyJoinColumnMetadata.java
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* mmacivor - September 14/2009 - 2.0 - Initial implementation

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jar/org/eclipse/persistence/internal/oxm/record/XMLEventReaderReader.java
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* Contributors:

* Gordon Yorke - initial API and implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/CacheIsolationType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/indirection/ProtectedValueHolder.java

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* Contributors:

* Denise Smith - January, 2010 - 2.0.1

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* 11/10/2011-2.4 Guy Pelletier

* - 357474: Address primaryKey option from tenant discriminator column

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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/DirectToFieldMapping.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/weaving/TransformerFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/expressions/QueryKeyExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/eis/mappings/EISDirectMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/queries/ReportQueryResult.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sessions/factories/ProjectClassGenerator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/expressions/RelationExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/xdb/DirectToXMLTypeMapping.java
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* dmccann - August 25/2009 - 2.2 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlDiscriminatorValue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlDiscriminatorNode.java
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* May 21, 2009-2.0 Chris Delahunt
* - TODO Bug#: Bug Description
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* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
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* tware - added handling of database delimiters
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
*****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/helper/DatabaseField.java

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* Oracle - initial API and implementation from Oracle TopLink
* Zoltan NAGY & tware - added implementation of updateMaxRowsForQuery
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/MySQLPlatform.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/CaseNode.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/CoalesceNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/WhenThenNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/MapEntryNode.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 06/25/2009-2.0 Michael O'Brien
* - 266912: change MappedSuperclass handling in stage2 to pre process
accessors
* in support of the custom descriptors holding mappings required by the Metamodel
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/SerializedMetadata.java
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* Contributors:

* 03/26/2008-1.0M6 Guy Pelletier

* - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/CacheIndex.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredFunctionQueries.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/CascadeOnDelete.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/annotations/PLSQLTable.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/Struct.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/schemaframework/IndexDefinition.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredFunctionQuery.java

*

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jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredProcedureQueries.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredProcedureQuery.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/structures/StructureAccessor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/Index.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/expressions/SubSelectDatabaseTable.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/queries/PLSQLRecordMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/helper/FunctionField.java
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/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/sequencing/UuidGeneratorMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/NamedStoredFunctionQuery.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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jar/org/eclipse/persistence/internal/jpa/metadata/queries/PLSQLComplexTypeMetadata.java
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/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/Structure.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/platform/database/oracle/annotations/PLSQLRecords.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/CacheIndexes.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/CacheIndex.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* - 218084: Implement metadata merging functionality between mapping file
* 07/23/2010-2.2 Guy Pelletier
* - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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* 05/19/2010-2.1 ailitchev - Bug 244124 - Add Nested FetchGroup

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 * - 218084: Implement metadata merging functionality between mapping files
 * 04/27/2010-2.1 Guy Pelletier
 * - 309856: MappedSuperclasses from XML are not being initialized properly
 * 03/24/2011-2.3 Guy Pelletier

*

- 337323: Multi-tenant with shared schema support (part 1)
 - * 03/28/2011-2.3 Guy Pelletier
 - * - 341152: From XML cache interceptor and query redirector metadata don't support package specification
- *****/

Found in path(s):

*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/cache/CacheInterceptorMetadata.java

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- * Contributors:
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- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 05/23/2008-1.0M8 Guy Pelletier
- * - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
- * 07/15/2008-1.0.1 Guy Pelletier
- *
- * - 240679: MappedSuperclass Id not picked when on get() method accessor
- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 10/01/2008-1.1 Guy Pelletier
- * - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 02/26/2009-2.0 Guy Pelletier
- * - 264001: dot notation for mapped-by and order-by
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/03/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 06/25/2009-2.0 Michael O'Brien
- * - 266912: change MappedSuperclass handling in stage2 to
- pre process accessors
- * in support of the custom descriptors holding mappings required by the Metamodel

- * 04/09/2010-2.1 Guy Pelletier
 - * - 307050: Add defaults for access methods of a VIRTUAL access type
 - * 05/04/2010-2.1 Guy Pelletier
 - * - 309373: Add parent class attribute to EclipseLink-ORM
 - * 05/14/2010-2.1 Guy Pelletier
 - * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
 - * 06/01/2010-2.1 Guy Pelletier
 - * - 315195: Add new property to avoid reading XML during the canonical model generation
 - * 06/14/2010-2.2 Guy Pelletier
 - * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
 - * 07/05/2010-2.1.1 Guy Pelletier
 - * - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
 - * 09/16/2010-2.2 Guy Pelletier
 - * - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
 - * 12/01/2010-2.2 Guy Pelletier
 - * - 331234:
 - xml-mapping-metadata-complete overridden by metadata-complete specification
 - * 12/02/2010-2.2 Guy Pelletier
 - * - 251554: ExcludeDefaultMapping annotation needed
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/EmbeddableAccessor.java

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*

* Contributors:

- * mkeith - Gemini JPA work
- * ssmith - EclipseLink integration

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/osgi/EMFBuilderServiceProxyHandler.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/osgi/EMFServiceProxyHandler.java

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 *
 * Contributors:
 *   Oracle - initial API and implementation from Oracle TopLink
 *   07/19/2011-2.2.1 Guy Pelletier
 *   - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
 */
```

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```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/OneToManyMapping.java
*
```

```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/ManyToManyMapping.java
```

```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/AggregateObjectMapping.java
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 *
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 *   gonural - Initial implementation
 */
```

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jar/org/eclipse/persistence/jpa/rs/util/metadatasources/MultiResultQueryListMetadataSource.java
```

```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/util/metadatasources/SimpleHomogeneousListMetadataSource.java
*
```

```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/util/metadatasources/SingleResultQueryListMetadataSource.java
```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/metadatasources/MultiResultQueryListItemMetadataSource.java
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*

* Contributors:

* Rick Barkhouse - 2.2 - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaFieldImpl.java
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Gordon Yorke - VM managed entity detachment

* 07/16/2009-2.0 Guy Pelletier

* - 277039: JPA 2.0 Cache Usage Settings

* 07/15/2011-2.2.1 Guy Pelletier

* - 349424: persists during an preCalculateUnitOfWorkChangeSet event are lost

*****/

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/RepeatableWriteUnitOfWork.java
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* bdoughan - July 30/2009 - 2.0 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jaxb/DefaultElementConverter.java

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jar/org/eclipse/persistence/internal/indirection/WrappingValueHolder.java

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* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping files

* 05/23/2008-1.0M8 Guy Pelletier

- * - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
- * 05/30/2008-1.0M8 Guy Pelletier

- * - 230213: ValidationException when mapping to attribute in MappedSuperClass
- * 07/15/2008-1.0.1 Guy Pelletier
- * - 240679: MappedSuperclass Id not picked when on get() method accessor
- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 10/01/2008-1.1 Guy Pelletier
- * - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
- * 12/12/2008-1.1 Guy Pelletier
- * - 249860: Implement table per class inheritance support.
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 02/26/2009-2.0 Guy Pelletier
- * - 264001: dot notation for mapped-by and order-by
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/03/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 10/21/2009-2.0 Guy Pelletier
- * - 290567: mappedbyid support incomplete
- * 11/06/2009-2.0 Guy Pelletier
- * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
- * 01/22/2010-2.0.1 Guy Pelletier
- * - 294361: incorrect generated table for element collection attribute overrides
- * 01/26/2010-2.0.1 Guy Pelletier
- * - 299893: @MapKeyClass does not work with ElementCollection
- * 03/29/2010-2.1 Guy Pelletier
- * - 267217: Add Named Access Type to EclipseLink-ORM
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 05/04/2010-2.1 Guy Pelletier
- * - 309373: Add parent class attribute to EclipseLink-ORM
- * 05/14/2010-2.1 Guy Pelletier
- * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- * 06/22/2010-2.2 Guy Pelletier
- * - 308729: Persistent Unit deployment exception when mappedsuperclass has no annotations but has lifecycle callbacks

- * 07/05/2010-2.1.1 Guy Pelletier
- * - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
- * 09/16/2010-2.2 Guy Pelletier
- * - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
- * 12/01/2010-2.2 Guy Pelletier
- * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
- * 12/02/2010-2.2 Guy Pelletier
- * - 251554: ExcludeDefaultMapping annotation needed
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/04/2012-2.3.3

Guy Pelletier

- * - 362180: ConcurrentModificationException on predeploy for AttributeOverride
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/ClassAccessor.java

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- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323:

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedNativeQueryMetadata.java

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* dclarke/tware - initial

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/eventlistener/ChangeListener.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/InMemoryArchive.java

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* - rbarkhouse - 04 November 2011 - 2.4 - Initial implementation

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- * - 218084: Implement metadata merging functionality between mapping files
- * 06/20/2008-1.0 Guy Pelletier
- * - 232975: Failure when attribute type is generic
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element
- Collections (part 1)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association Override Join Table
- * 09/29/2009-2.0 Guy Pelletier
- * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 09/03/2010-2.2 Guy Pelletier
- * - 317286: DB column lenght not in sync between @Column and @JoinColumn
- * 01/04/2011-2.3 Guy Pelletier
- * - 330628: @PrimaryKeyJoinColumn(...) is not working equivalently to @JoinColumn(..., insertable = false, updatable = false)
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/BasicCollectionAccessor.java
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* mmacivor - June 19/2008 - 1.0 - Initial implementation

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 *     http://wiki.eclipse.org/EclipseLink/Development/Dynamic
 *
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 * lists or the bug database.
 */
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/tools/schemaframework/DynamicSchemaManager.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/exceptions/DynamicException.java
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 *
 * Contributors:
 *   10/15/2010-2.2 Guy Pelletier
 *   - 322008: Improve usability of additional criteria applied to queries at the session/EM
 */
```

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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 04/01/2011-2.3 Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 2)

* 09/09/2011-2.3.1 Guy Pelletier

* - 356197: Add new VPD type to MultitenantType

*****/

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/ReadAllQuery.java

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 *
 * Contributors:
 * Guy Pelletier (Oracle), February 28, 2007
 * - New file introduced for bug 217880.
 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 12/12/2008-1.1 Guy Pelletier
 * - 249860: Implement table per class inheritance support.
 * 12/18/2009-2.1 Guy Pelletier
 *
 * - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
 *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/inheritance/InheritanceMetadata.java

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* Oracle - initial API and implementation from Oracle TopLink
 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 06/20/2008-1.0 Guy Pelletier
 * - 232975: Failure when attribute type is generic
 * 04/02/2009-2.0 Guy Pelletier
 * - 270853: testBeerLifeCycleMethodAnnotationIgnored
 within xml merge testing need to be relocated
 * 01/05/2010-2.1 Guy Pelletier
 * - 211324: Add additional event(s) support to the EclipseLink-ORM.XML Schema
 * 12/01/2010-2.2 Guy Pelletier
 * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
 *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/listeners/EntityClassListenerMetadata.java
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*
* Contributors:
* tware - March 28/2008 - 1.0M7 - Initial implementation
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
*
337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/CustomCopyPolicyMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/CloneCopyPolicyMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/CopyPolicyMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/InstantiationCopyPolicyMetadata.java
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*
* Contributors:
* dclarke, mnorman - Dynamic Persistence
* <http://wiki.eclipse.org/EclipseLink/Development/Dynamic>
* (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)

*

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/dynamic/DynamicPropertiesManager.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/dynamic/DynamicPropertiesInitializatonPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/dynamic/DynamicEnumBuilder.java

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* Gordon Yorke - Initial development

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/NamedSubgraph.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/NamedAttributeNode.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/NamedEntityGraph.java

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*

* Contributors:

* 08/10/2009-2.0 Guy Pelletier

* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes

- * 06/01/2010-2.1 Guy Pelletier
- * - 315195: Add new property to avoid reading XML during the canonical model generation
- * 10/18/2010-2.2 Guy Pelletier
- * - 322921: OutOfMemory in annotation

processor

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/CanonicalModelProperties.java

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- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association

Override Join Table

- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/AssociationOverrideMetadata.java

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* mmacivor - August 22/2008 - 1.0 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/platform/xml/DefaultErrorHandler.java
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* Contributors:
* 11/06/2009-2.0 Guy Pelletier
* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables
in AssociationOverrides
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/mappings/MapKeyMetadata.java
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* Blaise Doughan - 2.3.3 - initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/XMLContainerMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/UnmarshallerProperties.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/MarshallerProperties.java

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* - 218084: Implement metadata merging functionality between mapping files
* 02/25/2009-2.0 Guy Pelletier
* - 265359: JPA 2.0 Element Collections - Metadata processing portions
* 03/27/2009-2.0 Guy Pelletier
*
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly

- * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
 - * 25/05/2012-2.4 Guy Pelletier
 - * - 354678: Temp classloader is still being used during metadata processing
- *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/ObjectTypeConverterMetadata.java
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 - * Fujitsu Ltd. (Dies Koper) - based on TLE-based implementation in Fujitsu's
 - * Interstage Application Server V9.2 (JPA 1.0)
 - * 09/14/2011-2.3.1 Guy Pelletier
 - * - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
 - *
- *****/

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/SymfowarePlatform.java
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 - * Contributors:
 - * tware - part of fix for bug 351186
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* - 218084: Implement metadata merging functionality between mapping files
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 07/23/2010-2.2 Guy Pelletier
*
* - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/sequencing/GeneratedValueMetadata.java

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 *   stardif - ClientSession broker ServerSession and change propagation additions
 */
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```
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sessions/broker/SessionBroker.java
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 *   04/05/2011-2.3 Guy Pelletier
 *     - 337323: Multi-tenant with shared schema support (part 3)
 *   04/21/2011-2.3 Guy Pelletier
 *     - 337323: Multi-tenant with shared schema support (part 5)
 *   06/30/2011-2.3.1 Guy Pelletier
 *     - 341940: Add disable/enable
allowing native queries
 *   07/11/2011-2.4 Guy Pelletier
 *     - 343632: Can't map a compound constraint because of exception:
 *       The reference column name [y] mapped on the element [field x]
 *       does not correspond to a valid field on the mapping reference
 *   09/09/2011-2.3.1 Guy Pelletier
 *     - 356197: Add new VPD type to MultitenantType
 *   22/05/2012-2.4 Guy Pelletier
 *     - 380008: Multitenant persistence units with a dedicated emf should force tenant property specification up
front.
```

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- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/i18n/ValidationExceptionResource.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/ValidationException.java

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- * 03/19/2009-2.0 dclarke - initial API start
- * 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
- * of the Metamodel implementation for EclipseLink 2.0 release involving
- * Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
- * - 266912: JPA 2.0 Metamodel API (part
- of the JSR-317 EJB 3.1 Criteria API)
- * 07/20/2010-2.1 mobrien - 303063: Descriptor.javaClass may not be set according to metadata contract

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/TypeImpl.java

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* 05/05/2011-2.3 Chris Delahunt - Bug 344837: Extensibility - Metadata Repository
* 02/27/2012-2.4 delarke - Bug 373120: Add persistence unit property overrides to Metadata Repository
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/metadata/MetadataSource.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/MultiDimensionalCollectionValue.java
*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/rs/MOXYJsonProvider.java

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*

* Contributors:

- * bdoughan - Jan 27/2009 - 1.1 - Initial implementation
- * bdoughan - Mar 31/2009 - 2.0 - Added ChangeSummary Support

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBValueStore.java

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* Contributors:

- * mnorman - May 15/2008 - 1.x - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRSessionsFactory.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRSessionConfigLoader.java

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* <http://www.eclipse.org/org/documents/edl-v10.php>.

*

* Contributors:

- * 03/19/2009-2.0 dclarke - initial API start

- * 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
- * of the Metamodel implementation for EclipseLink 2.0 release involving
- * Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
- * - 266912: JPA 2.0 Metamodel API (part
- of the JSR-317 EJB 3.1 Criteria API)
- * 07/06/2009-2.0 mobrien - 266912: Introduce IdentifiableTypeImpl between ManagedTypeImpl
- * - EntityTypeImpl now inherits from IdentifiableTypeImpl instead of ManagedTypeImpl
- * - MappedSuperclassTypeImpl now inherits from IdentifiableTypeImpl instead
- * of implementing IdentifiableType indirectly
- * - implement Set<SingularAttribute<? super X, ?>> getSingularAttributes()
- * 07/09/2009-2.0 mobrien - 266912: implement get*Attribute() functionality
- * - functions throw 2 types of IllegalArgumentExceptions depending on whether
- * the member is missing or is the wrong type - see design issue #41
- *
- http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_41:_When_to_throw_IAE_for_missing_member_or_wrong_type_on_get.28.29_call
- * 07/14/2009-2.0 mobrien - 266912: implement getDeclared*() functionality
- * - Implement 14 functions for ManagedType - see design issue #43
- *
- http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_43:_20090710:_Implement_getDeclaredX.28.29_methods
- * 07/28/2009-2.0 mobrien - 284877: implement recursive functionality for hasDeclaredAttribute()
- * - see design issue #52
- *
- http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_52:_20090728:_JPA_2:_Implement_recursive_ManagedType.getDeclared.2A_algorithm_to_differentiate_by_IdentifiableType
- * 08/08/2009-2.0 mobrien - 266912: implement Collection and List separation during attribute initialization
- * - see design issue #58
- *
- http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_58:_20090807:_ManagedType_Attribute_Initialization_must_differentiate_between_Collection_and_List
- * 08/17/2009-2.0 mobrien - 284877: The base case for the recursive function
- * managedTypeImpl.hasDeclaredAttribute() does not handle use case 1.4 (root-level managedType)
- * when the
- caller of the function does not do it's own inheritedType check.
- * - see design issue #52
- * http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI:52_Refactor:_20090817
- * 08/19/2009-2.0 mobrien - 266912: Handle MappedSuperclass in ManagedTypeImpl.create()
- * - see design issue #39 (partial)
- *
- http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_39:_20090708:_Handle_MappedSuperclass_in_ManagedTypeImpl.create.28.29
- * 08/19/2009-2.0 mobrien - 266912: ManagedType.getDeclaredX() leaks members into entity-entity hierarchy
- * - see design issue #61
- *
- http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_61:_20090820:_ManagedType.getDeclaredX.28.29_leaks_members_into_entity-entity_hierarchy
- * 06/01/2010-2.1 mobrien - 315287: Handle BasicType as inheritance root for ManagedTypes

* - see design issue #103

*

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_103:_20100601:_315287:_Handle_BasicType_as_inheritance_root_for_ManagedTypes

* 09/09/2010-2.2 mobrien - 322166: If attribute is defined on this current ManagedType (and not on a superclass)

* - do not attempt a reflective call on a superclass

* - see design issue #25

*

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_25:_20090616:_Inherited_parameterized_generics_for_Element_Collections_.28Basic.29

*

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/ManagedTypeImpl.java

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*

* Contributors:

* Oracle - initial API and implementation from Oracle TopLink

* 05/16/2008-1.0M8 Guy Pelletier

* - 218084: Implement metadata merging functionality between mapping file

* 09/23/2008-1.1 Guy Pelletier

* - 241651: JPA 2.0 Access Type support

* 12/10/2008-1.1 Michael O'Brien

* - 257606: Add orm.xml schema validation

true/(false) flag support in persistence.xml

* 03/27/2009-2.0 Guy Pelletier

* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLEntityMappingsReader.java

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* Contributors:

* Andrei Ilchev (Oracle), March 7, 2008
* - New file introduced for bug 211300.
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping file
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3

Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/transformers/ReadTransformerMetadata.java

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* Contributors:

* 05/05/2011-2.3 Chris Delahunt
* - 344837: Extensibility - Metadata Repository

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/metadata/XMLMetadataSource.java

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* Contributors:

* 03/26/2008-1.0M6 Guy Pelletier
* - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized

properly

* 01/25/2011-2.3 Guy Pelletier
* - 333913: @OrderBy and <order-by/> without arguments should order by primary
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/DiscriminatorClassMetadata.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/NamingExceptionMapper.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/PersistenceExceptionMapper.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/ClassNotFoundExceptionMapper.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/MalformedURLExceptionMapper.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/IOExceptionMapper.java

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/DatabaseExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/InvocationTargetExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/NonUniqueResultExceptionExceptionMapper.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/IllegalAccessExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/IllegalStateExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/UnsupportedMediaTypeExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/NoSuchMethodExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/ConversionExceptionMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/IllegalArgumentExceptionMapper.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/rs/exceptions/JAXBExceptionMapper.java
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- *
- * Contributors:
- * Chris Delahunt (Oracle) May 13, 2008-1.0M8
- * - New file introduced for bug 217164.
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 11/06/2009-2.0 Guy Pelletier
- * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
- * 03/29/2010-2.1 Guy Pelletier
- * - 267217: Add Named Access Type to EclipseLink-ORM
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/mappings/AccessMethodsMetadata.java

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* Contributors:
* mmacivor - July 18 05/2008 - 1.0 - Initial implementation

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*

* Contributors:
* 08/10/2009-2.0 Guy Pelletier
* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
* 08/25/2010-2.2 Guy Pelletier
* - 309445: CanonicalModelProcessor process all files
* 11/23/2010-2.2 Guy Pelletier
* - 330660: Canonical model generator throws ClassCastException
when using package-info.java

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/visitors/ElementVisitor.java

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* Oracle - initial API and implementation from Oracle TopLink  
* Markus Karg - bug fix for log operator  
* 09/09/2011-2.3.1 Guy Pelletier  
* - 356197: Add new VPD type to MultitenantType  
* 09/14/2011-2.3.1 Guy Pelletier  
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU  
*/
```

Found

in path(s):

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
jar/org/eclipse/persistence/platform/database/OraclePlatform.java
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* dmccann - December 10/2009 - 2.0.1 - Initial implementation  
*/
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
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*
* Contributors:
* James Sutherland - initial impl
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/FirebirdPlatform.java
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* tware - added handling of database delimiters
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files

- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association Override Join Table
- * 11/23/2009-2.0 Guy Pelletier
- * - 295790: JPA 2.0 adding @MapsId to one entity causes initialization errors in other entities
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/EmbeddedAccessor.java

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* - rbarkhouse - 19 April 2012 - 2.4 - Initial implementation

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/CycleRecoverableContextProxy.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add

EclipseLink support for Map type attributes

* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 11/02/2009-2.0 Michael O'Brien
* - 266912: JPA 2.0 Metamodel support for m:1 as m:m in DI 96
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ManyToOneAccessor.java

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*   tware - initial  
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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
jar/org/eclipse/persistence/jpa/rs/util/JTATransactionWrapper.java
```

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*   tware - 1.0 - Taken from Eclipse Wiki - http://wiki.eclipse.org/index.php/BundleProxyClassLoader_recipe  
*****/
```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
jar/org/eclipse/persistence/internal/jpa/deployment/osgi/BundleProxyClassLoader.java
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- * Oracle - initial API and implementation from Oracle TopLink
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses

from XML are not being initialized properly

- * 09/16/2010-2.2 Guy Pelletier
- * - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/XMLAttributes.java
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- *
- * Contributors:
- * Matt MacIvor - 2.4 - initial implementation

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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/AccessorFactoryWrapper.java
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- * Contributors:
- * Oracle - initial API and implementation from Oracle TopLink

- * 14/05/2012-2.4 Guy Pelletier
 - * - 376603: Provide for table per tenant support for multitenant applications
 - * 22/05/2012-2.4 Guy Pelletier
 - * - 380008: Multitenant persistence units with a dedicated emf should force tenant property specification up front.
 - * 31/05/2012-2.4 Guy Pelletier
 - * - 381196: Multitenant persistence units with a dedicated emf should allow for DDL generation.
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/DatabaseSessionImpl.java
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* Contributors:

- * James Sutherland - initial implementation

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* Contributors:

- * Denise Smith - November 2, 2009

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Contributors:

dmccann - December 22/2010 - 2.3 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/eclipselink_oxm_2_4.xsd

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* - 218084: Implement metadata merging functionality between mapping file

* 05/23/2008-1.0M8 Guy Pelletier

* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema

* 07/22/2008-1.1 Guy Pelletier

* - 237315: Support converters on attribute mappings in the eclipselink orm.xml schema

* 08/27/2008-1.1 Guy Pelletier

* - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema

* 09/23/2008-1.1 Guy Pelletier

* - 241651: JPA 2.0 Access Type support

* 02/06/2009-2.0 Guy Pelletier

* - 248293: JPA 2.0 Element Collections (part 2)

* 02/25/2009-2.0 Guy Pelletier

* - 265359: JPA 2.0 Element Collections - Metadata processing portions

* 03/27/2009-2.0 Guy Pelletier

- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
 - * 04/03/2009-2.0 Guy Pelletier
 - * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
 - * 06/09/2009-2.0 Guy Pelletier
 - * - 249037: JPA 2.0 persisting list item index
 - * 06/16/2009-2.0 Guy Pelletier
 - * - 277039: JPA 2.0 Cache Usage Settings
 - * 11/06/2009-2.0 Guy Pelletier
 - * - 286317: UniqueConstraint xml
- element is changing (plus couple other fixes, see bug)
- * 12/2/2009-2.1 Guy Pelletier
 - * - 296289: Add current annotation metadata support on mapped superclasses to EclipseLink-ORM.XML

Schema

- * 12/18/2009-2.1 Guy Pelletier
- * - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
- * 01/19/2010-2.1 Guy Pelletier
- * - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
- * 03/08/2010-2.1 Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 05/04/2010-2.1 Guy Pelletier
- * - 309373: Add parent class attribute to EclipseLink-ORM
- * 09/16/2010-2.2 Guy Pelletier
- * - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
- * 10/15/2010-2.2 Guy Pelletier
- * - 322008: Improve usability of additional criteria applied to queries at the session/EM
- * 10/28/2010-2.2 Guy Pelletier
- * - 3223850: Primary key metadata issues
- * 01/25/2011-2.3 Guy Pelletier
- * - 333913: @OrderBy and <order-by/> without arguments should order by primary
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 03/28/2011-2.3 Guy Pelletier
- * - 341152: From XML cache interceptor and query redirector metadata don't support package specification
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 8)
- * 07/03/2011-2.3.1 Guy Pelletier
- * - 348756: m_cascadeOnDelete boolean should be changed to Boolean
- * 08/18/2011-2.3.1 Guy Pelletier
- * - 355093: Add new 'includeCriteria' flag to Multitenant metadata
- * 02/08/2012-2.4 Guy Pelletier
- * - 350487: JPA

2.1 Specification defined support for Stored Procedure Calls

- * 14/05/2012-2.4 Guy Pelletier
- * - 376603: Provide for table per tenant support for multitenant applications

* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLEntityMappingsMappingProject.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/PLSQLCollectionWrapper.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/dbws/SOAPResponse.java
*
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/StoredProcedureQueryHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/ValueObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/XRDynamicEntityAccessor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/NamedQueryHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/ObjectPersistenceRuntimeXMLProject_11_1_1.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/sxf/SimpleXMLFormatModel.java

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*

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/sxf/SimpleXMLFormatProject.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/ProcedureOutputArgument.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/XMLCompositeObjectMappingNodeValue.java

*

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/JAXBBinder.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/XMLConstants.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/XMLMarshaller.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/JAXBContext.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/CollectionResult.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/compiler/MappingsGenerator.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/SDOException.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/QueryOperation.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/JPQLQueryHandler.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/XMLCompositeDirectCollectionMappingNodeValue.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/sdo/helper/delegates/SDOTypeHelperDelegator.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/Attachment.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/mappings/XMLAnyCollectionMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/ReferenceResolver.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/ProjectHelper.java
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jar/org/eclipse/persistence/internal/dbws/DBWSAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/dbws/SOAPResponseClassLoader.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/Invocation.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/documentpreservation/RelativePositionOrderingPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/delegates/SDOTypeHelperDelegate.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRServiceAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sessions/factories/XMLSessionConfigLoader.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/QNameTransformer.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/XPathEngine.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/DeleteOperation.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/SDOUnmarshalListener.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/oxm/mappings/XMLFragmentCollectionMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/ProcedureArgument.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/StoredFunctionQueryHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/Util.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/JAXBContextFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/Parameter.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/mappings/XMLAnyAttributeMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/mappings/XMLCompositeDirectCollectionMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/QueryHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRServiceModel.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/SDOTypesGenerator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/XMLConversionManager.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRDynamicEntityVHAccessor.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/JAXBUnmarshaller.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/InsertOperation.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/UnmarshalXPathEngine.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/record/DOMRecord.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/SDOTypeHelper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/AttachmentHelper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/SQLQueryHandler.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jaxb/DomHandlerConverter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/XMLBinder.java
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* Contributors:
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* 11/10/2011-2.4 Guy Pelletier

* - 357474: Address primaryKey option from tenant discriminator column
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
*****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/DatabaseMapping.java

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*

* Contributors:

* David McCann - December 02, 2011 - 2.4 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/OracleArrayTypeWrapper.java

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* Contributors:

* 01/25/2011-2.3 Guy Pelletier

* - 333913: @OrderBy and <order-by/> without arguments should order by primary

* 03/24/2011-2.3 Guy Pelletier

* - 337323: Multi-tenant with shared schema support (part 1)

* 04/09/2012-2.4 Guy Pelletier

* - 374377: OrderBy with ElementCollection doesn't work

*****/

Found

in path(s):

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-  
jar/org/eclipse/persistence/internal/jpa/metadata/mappings/OrderByMetadata.java
```

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*
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```
* Oracle - initial API and implementation from Oracle TopLink  
* 05/16/2008-1.0M8 Guy Pelletier  
* - 218084: Implement metadata merging functionality between mapping files  
* 06/20/2008-1.0 Guy Pelletier  
* - 232975: Failure when attribute type is generic  
* 08/27/2008-1.1 Guy Pelletier  
* - 211329: Add sequencing  
on non-id attribute(s) support to the EclipseLink-ORM.XML Schema  
* 09/23/2008-1.1 Guy Pelletier  
* - 241651: JPA 2.0 Access Type support  
* 01/28/2009-2.0 Guy Pelletier  
* - 248293: JPA 2.0 Element Collections (part 1)  
* 02/06/2009-2.0 Guy Pelletier  
* - 248293: JPA 2.0 Element Collections (part 2)  
* 03/27/2009-2.0 Guy Pelletier  
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes  
* 04/24/2009-2.0 Guy Pelletier  
* - 270011: JPA 2.0 MappedById support  
* 10/21/2009-2.0 Guy Pelletier  
* - 290567: mappedbyid support incomplete  
* 12/2/2009-2.1 Guy Pelletier  
* - 296612: Add current annotation only metadata support of return insert/update to the EclipseLink-  
ORM.XML Schema  
* 03/08/2010-2.1 Guy Pelletier  
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM  
* 04/27/2010-2.1 Guy Pelletier  
* - 309856: MappedSuperclasses from XML are not being initialized  
properly  
* 07/05/2010-2.1.1 Guy Pelletier  
* - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping  
* 03/24/2011-2.3 Guy Pelletier  
* - 337323: Multi-tenant with shared schema support (part 1)  
* 07/03/2011-2.3.1 Guy Pelletier
```

* - 348756: m_cascadeOnDelete boolean should be changed to Boolean

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/BasicAccessor.java

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- * Oracle - initial API and implementation from Oracle TopLink
- * Dies Koper - add support for creating indices on tables

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- * Matt MacIvor = 2.1 - Initial contribution

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlInverseReference.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/reflection/AnnotationHelper.java

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* Oracle - initial API and implementation from Oracle TopLink

* Markus Karg - allow arguments to be specified multiple times in argumentIndices

* 05/07/2009-1.1.1 Dave Brosius

* - 263904: [PATCH] ExpressionOperator doesn't compare arrays correctly

Found

in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/expressions/ExpressionOperator.java

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* Denise Smith - April 7, 2011

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* dclarke, mnorman - Dynamic Persistence

* <http://wiki.eclipse.org/EclipseLink/Development/Dynamic> (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)

* dclarke - Bug 387240: added field and method calls to allow extensibility

*

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path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/dynamic/DynamicClassWriter.java

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* Markus Karg and Oracle - initial API and implementation from Oracle TopLink and TopLink Essentials 05/16/2008-1.0 Markus Karg - 237843: CONCAT must be translated into || instead of +

*

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/SQLAnywherePlatform.java

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* mmacivor - September 18/2009 - 2.0 - Initial implementation

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* 06/30/2011-2.3.1 Guy Pelletier

* - 341940: Add disable/enable allowing native queries

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* 08/10/2009-2.0 Guy Pelletier

* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes

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*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipaselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/objects/PersistenceXML.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipaselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/visitors/AnnotationValueVisitor.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipaselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/visitors/TypeVisitor.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipaselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/visitors/TypeVisitor.java

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* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA
2.0 Element Collections (part 2)
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 09/29/2009-2.0 Guy Pelletier
* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 05/17/2012-2.3.3 Arron Ferguson
* - 379829: NPE Thrown with OneToOne Relationship

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ManyToManyAccessor.java
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*
* Contributors:
* - rbarkhouse - 07 February 2012 - 2.3.3 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/CharacterEscapeHandler.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 08/23/2010-2.2 Michael O'Brien
* - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
* warn if expected "_persistence_*_vh" method not found
* instead of throwing NPE during deploy validation.
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/exceptions/DescriptorException.java
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* Contributors:

- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 08/18/2011-2.3.1 Guy Pelletier
- * - 355093: Add new 'includeCriteria' flag to Multitenant metadata

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/Multitenant.java

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*

* Contributors:

- * dclarke, mnorman - Dynamic Persistence
- * <http://wiki.eclipse.org/EclipseLink/Development/Dynamic>
- * (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)

*

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/dynamic/DynamicClassLoader.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/dynamic/DynamicType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/dynamic/ValuesAccessor.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/dynamic/DynamicEntity.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/dynamic/DynamicEntityImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/dynamic/DynamicTypeImpl.java

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*
* Contributors:
*   Andrei Ilitchev (Oracle), April 8, 2008
*     - New file introduced for bug 217168.
*****/

```

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```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/Property.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/Properties.java

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* Contributors:
*   dmccann - September 14/2010 - 2.2 - Initial implementation
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlKey.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlJoinNode.java

```

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* James Sutherland - initial API and implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/PinnedPartitioning.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/RoundRobinPartitioning.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/ValuePartition.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/ManyToOneMapping.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/BatchFetchPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/ValuePartitioning.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/HashPartitioning.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/ReplicationPartitioning.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/RangePartition.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/UnionPartitioning.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/UuidGenerator.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/identitymaps/CacheId.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/Partitioning.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/events/DatabaseEventListener.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/RangePartitioning.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/oracle/dcn/OracleChangeNotificationListener.java

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*
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*   Gyorke
*
*   05/28/2008-1.0M8 Andrei Ilitchev
*     - 224964: Provide support for Proxy Authentication through JPA.
*     Now properties' names that could be used both in createEM and createEMF are the same.
*****/
/**
    * This property is used to
specify proxy type that should be passed to OarclConnection.openProxySession method.
    * Requires Oracle jdbc version 10.1.0.2 or later.
    * Requires Oracle9Platform or later as a database platform
    * (TARGET_DATABASE property value should be TargetDatabase.Oracle9 or later).
    * The valid values are:
    * OracleConnection.PROXYTYPE_USER_NAME,
OracleConnection.PROXYTYPE_DISTINGUISHED_NAME, OracleConnection.PROXYTYPE_CERTIFICATE.
    * Property property corresponding to the specified type should be also provided:
    * OracleConnection.PROXY_USER_NAME, OracleConnection.PROXY_DISTINGUISHED_NAME,
OracleConnection.PROXY_CERTIFICATE.
    * Typically these properties should be set into EntityManager (either through createEntityManager method or
    * using proprietary setProperties method on EntityManagerImpl) - that causes EntityManager to use proxy
connection for
    * writing and reading inside transaction.
    * If proxy-type and the corresponding proxy property set
into EntityManagerFactory then all connections
    * created by the factory will be proxy connections.
    * The property cannot be applied to existing active persistence unit context.
    * The context could be removed by calling clear method on the EntityManager when there is no active
transaction.
    */

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/config/EntityManagerProperties.java

```

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 * 07/16/2009-2.0 Guy Pelletier
 * - 277039: JPA 2.0 Cache Usage Settings
 * 06/30/2010-2.1.1 Michael O'Brien
 * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
 * Move JMX MBean generic registration code
 up from specific platforms
 * see <http://wiki.eclipse.org/EclipseLink/DesignDocs/316513>
 * 10/15/2010-2.2 Guy Pelletier
 * - 322008: Improve usability of additional criteria applied to queries at the session/EM
 * 10/28/2010-2.2 Guy Pelletier
 * - 3223850: Primary key metadata issues
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
 * 04/05/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 3)
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 8)
 * 07/11/2011-2.4 Guy Pelletier
 * - 343632: Can't map a compound constraint because of exception:
 * The reference column name [y] mapped on the element [field x]
 * does not correspond to a valid field on the mapping reference
 * 14/05/2012-2.4 Guy Pelletier
 * - 376603: Provide for table per tenant
 support for multitenant applications
 *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/localization/i18n/LoggingLocalizationResource.java
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* bdoughan - Mar 18/2009 - 2.0 - Dynamically generated impl classes now
* implement correct interface.
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/DynamicClassWriter.java

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*
* Contributors:
* 06/10/2009 Andrei Ilitchev
* - JPA 2.0 - OrderedList support.

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/OrderCorrectionType.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/helper/IndexedObject.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/expressions/IndexExpression.java

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* bdoughan - Mar 19/2009 - 2.0 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBClassGenerator.java

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* 08/23/2010-2.2 Michael O'Brien
* - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
* warn if expected "_persistence_*_vh" method not found
* instead of throwing NPE during deploy validation.
* 30/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing

*

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/security/PrivilegedAccessHelper.java

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* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedStoredFunctionQueryMetadata.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedPLSQLStoredFunctionQueryMetadata.java
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*  
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*   Denise Smith - November 2, 2009  
*****/
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/record/FormattedOutputStreamRecord.java
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*   dmccann - September 14/2010 - 2.2 - Initial implementation  
*****/
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Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlJoinNodes.java
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*   - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/queries/ConstructorResult.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/queries/ConstructorResultMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/queries/ColumnResultMetadata.java
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*   tware - initial implementation as part of extensibility feature
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/EntityManagerFactoryImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jpa/JpaEntityManagerFactory.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* Contributors:
* mobrien - initial API and implementation
*****/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/helper/JPAClassLoaderHolder.java
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*

* Contributors:
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
*****/

Found
in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/ClassInstanceMetadata.java
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*

* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* Sun Microsystems
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse/links-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/DerbyPlatform.java

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* <http://www.eclipse.org/org/documents/edl-v10.php>.

*

* Contributors:

- * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/01/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 2)
- * 04/05/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 3)
- * 06/30/2011-2.3.1 Guy Pelletier
 - * - 341940: Add disable/enable allowing native queries
- * 08/18/2011-2.3.1 Guy Pelletier
 - * - 355093: Add new 'includeCriteria' flag to Multitenant metadata
- * 09/09/2011-2.3.1 Guy Pelletier
 - * - 356197: Add new VPD type to MultitenantType
- * 09/20/2011-2.3.1 Guy Pelletier
 - * - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.
- * 14/05/2012-2.4 Guy Pelletier
 - * - 376603: Provide for table per tenant support for multitenant applications

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse/links-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/multitenant/MultitenantMetadata.java

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- * Contributors:
- * Oracle - initial API and implementation from Oracle TopLink
- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 05/23/2008-1.0M8 Guy Pelletier
- * - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
- * 05/30/2008-1.0M8 Guy Pelletier
- * - 230213: ValidationException when mapping to attribute in MappedSuperClass
- * 06/20/2008-1.0M9 Guy Pelletier
- * - 232975: Failure when attribute type is generic
- * 07/15/2008-1.0.1 Guy Pelletier
- * - 240679: MappedSuperclass Id not picked when on get() method accessor
- * 09/23/2008-1.1 Guy Pelletier
- * - 241651: JPA 2.0 Access Type support
- * 10/01/2008-1.1 Guy Pelletier
- * - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
- * 12/12/2008-1.1 Guy Pelletier
- * - 249860: Implement table per class inheritance support.
- * 01/28/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 1)
- * 02/06/2009-2.0 Guy Pelletier
- * - 248293: JPA 2.0 Element Collections (part 2)
- * 02/25/2009-2.0 Guy Pelletier
- * - 265359: JPA 2.0 Element Collections - Metadata processing portions
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add
- EclipseLink support for Map type attributes
- * 04/24/2009-2.0 Guy Pelletier
- * - 270011: JPA 2.0 MappedById support
- * 06/02/2009-2.0 Guy Pelletier
- * - 278768: JPA 2.0 Association Override Join Table
- * 06/16/2009-2.0 Guy Pelletier
- * - 277039: JPA 2.0 Cache Usage Settings
- * 06/25/2009-2.0 Michael O'Brien
- * - 266912: add isMappedSuperclass() helper function in support of MappedSuperclass handling for the Metamodel API.
- * 08/11/2009-2.0 Michael O'Brien
- * - 284147: So we do not add a pseudo PK Field for MappedSuperclasses when 1 or more PK fields already exist on the descriptor. Add m_idAccessor map and hasIdAccessor() function.
- * 10/21/2009-2.0 Guy Pelletier
- * - 290567: mappedbyid support incomplete
- * 01/05/2010-2.1 Guy Pelletier
- * - 211324: Add additional event(s) support to the EclipseLink-ORM.XML Schema
- * 01/22/2010-2.0.1 Guy Pelletier
- * - 294361: incorrect

generated table for element collection attribute overrides

- * 03/08/2010-2.1 Michael O'Brien
- * - 300051: JPA 2.0 Metamodel processing requires EmbeddedId validation moved higher from EmbeddedIdAccessor.process() to MetadataDescriptor.addAccessor() so we can better determine when to add the MAPPED_SUPERCLASS_RESERVED_PK_NAME temporary PK field used to process MappedSuperclasses for the Metamodel API during MetadataProject.addMetamodelMappedSuperclass()
- * 04/09/2010-2.1 Guy Pelletier
- * - 307050: Add defaults for access methods of a VIRTUAL access type
- * 05/03/2009-1.2.1 Guy Pelletier
- * - 307547: Exception in order by clause after migrating to eclipselink 1.2 release
- * 06/01/2010-2.1 Guy Pelletier
- * - 315195: Add new property to avoid reading XML during the canonical model generation
- * 06/14/2010-2.2 Guy Pelletier
- * - 264417:
Table generation is incorrect for JoinTables in AssociationOverrides
- * 06/18/2010-2.2 Guy Pelletier
- * - 300458: EclipseLink should throw a more specific exception than NPE
- * 07/16/2010-2.2 Guy Pelletier
- * - 260296: mixed access with no Transient annotation does not result in error
- * 08/04/2010-2.1.1 Guy Pelletier
- * - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
- * 08/11/2010-2.2 Guy Pelletier
- * - 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship from MappedSuperclass
- * 09/03/2010-2.2 Guy Pelletier
- * - 317286: DB column length not in sync between @Column and @JoinColumn
- * 10/15/2010-2.2 Guy Pelletier
- * - 322008: Improve usability of additional criteria applied to queries at the session/EM
- * 10/27/2010-2.2 Guy Pelletier
- * - 328114: @AttributeOverride does not work with nested embeddables having attributes of the same name
- * 12/01/2010-2.2 Guy Pelletier
- * - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
- * 12/02/2010-2.2 Guy Pelletier
- * - 251554: ExcludeDefaultMapping annotation needed
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/01/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 2)
- * 09/09/2011-2.3.1 Guy Pelletier
- * - 356197: Add new VPD type to MultitenantType
- * 11/10/2011-2.4 Guy Pelletier
- * - 357474: Address primaryKey option from tenant discriminator column
- * 25/05/2012-2.4 Guy Pelletier
- * - 354678: Temp classloader is still being used during metadata processing

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/MetadataDescriptor.java
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 *
 * Contributors:
 *   03/19/2009-2.0 dclarke - initial API start
 *   06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
 *     of the Metamodel implementation for EclipseLink 2.0 release involving
 *     Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
 *   - 266912: JPA 2.0 Metamodel API (part
 *     of the JSR-317 EJB 3.1 Criteria API)
 *   06/14/2010-2.1 mobrien - 314906: getJavaType should return the
 *     collection javaType C in <X,C,V> of <X, Collection<V>, V> instead off the elementType V
 */
```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/CollectionAttributeImpl.java
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 *
 * Contributors:
 *   12/18/2009-2.1 Guy Pelletier
 *   - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
 */
```

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/ClassExtractor.java

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jar/org/eclipse/persistence/internal/jpa/weaving/ComputeClassWriter.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaPackageImpl.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaModelImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaModelInputImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaAnnotationImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/dynamic/DynamicJAXBContextFactory.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaMethodImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaConstructorImpl.java

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* 05/26/2009-2.0 mobrien - 266912: Add implementation of IdentifiableType

* as EntityType inherits here instead of ManagedType as of rev# 4265

* 09/23/2009-2.0 mobrien - 266912: Implement hasSingleIdAttribute() and

* all other 6 remaining methods for Id

and Version support.

* DI 71 - 77 and 56

*

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_74:_20090909:_Implement_IdentifiableType.hasSingleIdAttribute.28.29

* 10/21/2009-2.0 Guy Pelletier

* - 290567: mappedbyid support incomplete

* 06/14/2010-2.1 mobrien - 314906: getJavaType should return the

* collection javaType C in <X,C,V> of <X, List<V>, V> instead off the elementType V.

* Because of this we switch to using getBindableJavaType() in getIdType()

* 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/IdentifiableTypeImpl.java

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* Contributors:

* James Sutherland - allow for zero ids

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaModelImpl.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaConstructorImpl.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaPackageImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJAXBElementImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaModelInputImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMObjectFactoryImpl.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/5/2009-2.0 Guy Pelletier
* - 248489: JPA 2.0 Pessimistic Locking/Lock Mode support
* - Allows the configuration of pessimistic locking from JPA entity manager
* functions (find, refresh, lock) and from individual query execution.
* A pessimistic
lock can be issued with a lock timeout value as well, in
* which case, for those databases that support LOCK WAIT will cause
* a LockTimeoutException to be thrown if the query fails as a result of
* a timeout trying to acquire the lock. A PessimisticLockException is
* thrown otherwise.
* 05/19/2010-2.1 ailitchev - Bug 244124 - Add Nested FetchGroup
* 09/21/2010-2.2 Frank Schwarz and ailitchev - Bug 325684 - QueryHints.BATCH combined with
QueryHints.FETCH_GROUP_LOAD will cause NPE
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/ReplicationPartitioningPolicy.java

*

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/HashPartitioningPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/RoundRobinPartitioningPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/FieldPartitioningPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/UnionPartitioningPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/PartitioningPolicy.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/profiler/PerformanceMonitor.java

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* tware - refactor of Archive to allow to work with Gemini

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* Contributors:
* dmccann - April 7/2009 - 2.0 - Initial implementation
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipseLink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jaxb/SessionEventListener.java

```

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* dmccann - June 17/2009 - 2.0 - Initial implementation
*****/

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```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipseLink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/compiler/XMLProcessor.java

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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* Flavio Stutz - bug fix for getEntryAsURL

```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/deployment/URLArchive.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/RollbackExceptionMapper.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* dminsky - changed id to use a String UUID instead of String hashCode()

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/coordination/ServiceId.java
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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* Phillip Ross - LIMIT/OFFSET syntax support
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
*****/

Found in path(s):

*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/platform/database/PostgreSQLPlatform.java
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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* stardif - updates for Cascaded locking and inheritance
* 02/20/2009-1.1 Guy Pelletier
* - 259829: TABLE_PER_CLASS with abstract classes does not work
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries
at the session/EM
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 04/05/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 3)
* 04/21/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 5)
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/ClassDescriptor.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/logging/i18n/LoggingLocalizationResource.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/logging/LoggingLocalization.java

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* Contributors:

* @author mobrien

* @since EclipseLink 2.1.1 enh# 316510

* 06/30/2010-2.1.1 Michael O'Brien

* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic

* Move JMX MBean generic registration code up from specific platforms

* see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/316513></link>

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/websphere/MBeanWebSphereRuntimeServices.java

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/services/websphere/ClassSummaryDetail.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/services/websphere/MBeanWebSphereRuntimeServicesMBean.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/services/websphere/WebSphereRuntimeServices.java
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*   Oracle - initial API and implementation from Oracle TopLink
*   05/16/2008-1.0M8 Guy Pelletier
*     - 218084: Implement metadata merging functionality between mapping file
*   11/06/2009-2.0 Guy Pelletier
*     - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
*   03/24/2011-2.3 Guy Pelletier
*
*   - 337323: Multi-tenant with shared schema support (part 1)
*****/
```

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/tables/UniqueConstraintMetadata.java
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* Oracle - initial API and implementation from Oracle TopLink
* 31/05/2010-2.1 Michael O'Brien
* - 312503: invalidateClass(Class, recurseFlag) - when recurseFlag=false
* (non-default) will now invalidate the implementing subtree
* from [Class] down. Previously only the single Class inside the tree was invalidated.

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/IdentityMapAccessor.java
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* Contributors:

* 08/19/2010-2.2 Guy Pelletier
* - 282773: Add plural converter annotations

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/TypeConverters.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/StructConverters.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/ObjectTypeConverters.java
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* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * cdelahun - Bug 214534: moved all api to JMSPublishingTransportManagerConfig

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- * Oracle - initial API and implementation from Oracle TopLink
- * Markus KARG - Added methods allowing to support stored procedure creation on SQLAnywherePlatform.

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/schemaframework/StoredProcedureDefinition.java
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 *
 * Contributors:
 * 03/19/2009-2.0 dclarke - initial API start
 * 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
 * of the Metamodel implementation for EclipseLink 2.0 release involving
 * Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
 * - 266912: JPA 2.0 Metamodel API (part
 of the JSR-317 EJB 3.1 Criteria API)
 * 07/06/2009-2.0 mobrien - 266912: Introduce IdentifiableTypeImpl between ManagedTypeImpl
 * - EntityTypeImpl now inherits from IdentifiableTypeImpl instead of ManagedTypeImpl
 * - MappedSuperclassTypeImpl now inherits from IdentifiableTypeImpl instead
 * of implementing IdentifiableType indirectly
 * 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation
 *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/jpa/metamodel/MappedSuperclassTypeImpl.java
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 jar/org/eclipse/persistence/internal/jaxb/many/MultiDimensionalArrayValue.java
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* dmccann - August 30/2010 - 2.2 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/JavaAttribute.java
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* @author mobrien
* @since EclipseLink 1.0 enh# 235168

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*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/mbean/MBeanDevelopmentServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/DevelopmentServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/mbean/MBeanDevelopmentServicesMBean.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/RuntimeServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/mbean/MBeanRuntimeServicesMBean.java
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* mmacivor - January 09, 2009 - 1.1 - Initial implementation

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* Contributors:

* 08/10/2009-2.0 Guy Pelletier

* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes

* 11/20/2009-2.0 Guy Pelletier/Mitesh Meswani

* - 295376: Improve usability of MetaModel generator

* 04/27/2010-2.1 Guy Pelletier

* - 309856: MappedSuperclasses from XML are not

being initialized properly

* 06/01/2010-2.1 Guy Pelletier

* - 315195: Add new property to avoid reading XML during the canonical model generation

* 11/23/2010-2.2 Guy Pelletier

* - 330660: Canonical model generator throws ClassCastException when using package-info.java

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/objects/PersistenceUnit.java

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 - * Zoltan NAGY & tware - updated support for MaxRows
 - * 11/01/2010-2.2 Guy Pelletier
 - * - 322916: getParameter on Query throws NPE
 - * 11/09/2010-2.1 Michael O'Brien
 - * - 329089: PERF: EJBQueryImpl.setParameterInternal() move indexOf check inside non-native block
 - * 02/08/2012-2.4 Guy Pelletier
 - * - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
- *****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/EJBQueryImpl.java

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 * Oracle - initial API and implementation from Oracle TopLink
 * 05/28/2008-1.0M8 Andrei Iltchev
 * - 224964: Provide support for Proxy Authentication through JPA.
 * The class was amended to allow it to instantiate ValueHolders after release method has been called
 * (internalExecuteQuery method no longer throws exception
 if the uow is dead).
 * Note that release method clears change sets but keeps the cache.
 * 02/11/2009-1.1 Michael O'Brien
 * - 259993: 1) Defer a full clear(true) call from entityManager.clear() to release()
 * only if uow lifecycle is 1,2 or 4 (*Pending) and perform a clear of the cache only in this case.
 * 2) During mergeClonesAfterCompletion() If the the acquire and release threads are different
 * switch back to the stored acquire thread stored on the mergeManager.
 * 17/04/2009-1.1 Michael O'Brien
 * - 272022: For rollback scenarios - If the current thread and the active thread
 * on the mutex do not match for read locks (not yet transitioned to deferred locks) - switch them
 * 07/16/2009-2.0 Guy Pelletier
 * - 277039: JPA 2.0 Cache Usage Settings
 * 07/15/2011-2.2.1 Guy Pelletier
 * - 349424: persists during an preCalculateUnitOfWorkChangeSet event are lost
 * 14/05/2012-2.4
 Guy Pelletier
 * - 376603: Provide for table per tenant support for multitenant applications
 *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
 jar/org/eclipse/persistence/internal/sessions/UnitOfWorkImpl.java

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 *
 * Contributors:
 * mmacivor - September 09/2009 - 1.0 - Initial implementation
 *****/

Found in path(s):

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/record/XMLEntry.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/record/XMLEventWriterRecord.java
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*
* Contributors:
*   05/16/2008-1.0M8 Guy Pelletier
*   - 218084: Implement metadata merging functionality between mapping files
*   01/25/2011-2.3 Guy Pelletier
*   - 333913: @OrderBy and <order-by/> without arguments should order by primary
*****/
```

```
/**
```

```
 * INTERNAL:
```

```
 * Return the attribute name of this accessible object. Right now it's just
 * the location. This method is currently never called and is implemented
 * only to satisfy the abstract definition. An attribute name is very
 * important on the metadata annotated element side and describes the
 * attribute the metadata is tied to. This avoids unnecessary casting when
 * initializing XML objects. If in the future, some logging message (or
 * something else would like to use this method, feel free to modify it to
 * return whatever is necessary (and of course, change this comment to
 * reflect the new dependency).
 */
```

```
Found in path(s):
```

```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataFile.java
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```

*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* ailitchev - bug 235433: Can't customize ConnectionPolicy through JPA + some comments.
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/server/ConnectionPolicy.java

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*
* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* tware - March 13, 2008 - 1.0M6 - JavaDoc rewrite
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/Convert.java

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*
* Contributors:
* David McCann = 2.1 - Initial contribution
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlIsSetNullPolicy.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlRegistry.java

*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAbstractNullPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlMarshalNullRepresentation.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAccessMethods.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlNullPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/MapKeyLookupResult.java
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*
* Contributors:
* rbarkhouse - 2009-05-05 14:32:00 - initial implementation
***/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/mappings/converters/XMLListConverter.java
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*
* Contributors:
* 12/04/2008 - 2.0 Darani Yallapragada
* - 248780: Initial contribution for JPA 2.0
* 06/03/2010 - 2.1 Michael O'Brien
* - 248780: Refactor Cache Implementation surrounding evict()
* Fix evict() to handle non-Entity classes
* Refactor to get IdentityMapAccessor state through EMF reference
* Refactor dependencies

to use Interfaces instead of Impl subclasses

- * Handle no CMPPolicy case for getId()
- * Handle no associated descriptor for Class parameter
- * MappedSuperclasses passed to evict() cause implementing subclasses to be evicted
- * Throw an IAE for Interfaces and Embeddable classes passed to evict()
- *

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/CacheImpl.java

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* Contributors:

- * Oracle - initial API and implementation from Oracle TopLink
- * 17/10/2008-1.1 Michael O'Brien
- * - 251005: The default JNDI InitialContextFactory is modified from
- * OC4J: oracle.j2ee.rmi.RMIInitialContextFactory to
- * WebLogic: weblogic.jndi.WLInitialContextFactory
- * cdelahun - Bug 214534: changes for JMSPublishingTransportManager configuration

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/XMLSessionConfigProject.java

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- * dclarke, mnorman - Dynamic Persistence

* <http://wiki.eclipse.org/EclipseLink/Development/Dynamic>
* (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)

*

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/xr/XRDynamicPropertiesManager.java

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* Contributors:

* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/multitenant/TenantTableDiscriminatorMetadata.java

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* Oracle - initial API and implementation from Oracle TopLink
* 11/23/2010-2.2 Frank Schwarz
* - 328774: TABLE_PER_CLASS-mapped key of a java.util.Map does not work for querying

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/MapContainerPolicy.java

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* Contributors:
*   ailitchev - Bug 244124 - Added to handle copying using AttributeGroup
*               Functionality copied from ObjectCopyPolicy
*****/

```

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sessions/CopyGroup.java

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* Contributors:
*   Oracle - initial API and implementation from Oracle TopLink
*   dminsky - removed Timestamp & TimeZone retrieval code from constructor
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/platform/database/oracle/TIMESTAMPTZWrapper.java

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*
* Contributors:
* dmccann - June 4/2008 - 1.0M8 - Initial implementation
* dmccann - Nov. 7/2008 - Moved delegate key logic to SDOHelperContext
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/delegates/AbstractHelperDelegator.java
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*
* Contributors:
* 12/2/2009-2.1 Guy Pelletier
* - 296612: Add current annotation only metadata support of return insert/update to the EclipseLink-ORM.XML Schema
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/mappings/ReturnInsertMetadata.java
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* Oracle - initial API and implementation from Oracle TopLink
* 04/01/2011-2.3 Guy Pelletier

- * - 337323: Multi-tenant with shared schema support (part 2)
- * 08/18/2011-2.3.1 Guy Pelletier
- * - 355093: Add new 'includeCriteria' flag to Multitenant metadata
- * 09/09/2011-2.3.1 Guy Pelletier
- * - 356197: Add new

VPD type to MultitenantType

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/InheritancePolicy.java

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* Contributors:

- * 01/19/2012-2.4 Chris Delahunt
- * - 368490: Add support for Metadata to be refreshed through RCM

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/coordination/MetadataRefreshCommand.java

*

/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/coordination/MetadataRefreshListener.java

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* Gordon Yorke - EclipseLink Interceptors work (ER 219683)

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* @author mobrien

* @since EclipseLink 1.1 enh# 248748

* 10/20/2008-1.1M4 Michael O'Brien

* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
* see <link><http://wiki.eclipse.org/EclipseLink/DesignDocs/248748></link>
*****/

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in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/weblogic/MBeanWebLogicRuntimeServices.java

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* Contributors:

* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 11/15/2011-2.3.2 Guy Pelletier
* - 363820: Issue with clone method from VPDMultitenantPolicy

*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/VPDMultitenantPolicy.java

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jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXAnnotationAdapter.java
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jar/org/eclipse/persistence/internal/libraries/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXClassAdapter.java
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*
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* tware - initial

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/weaving/PersistenceWeavedRest.java

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/weaving/RelationshipInfo.java

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*

* Contributors:

* dmccann - November 29/2010 - 2.3 - Initial implementation

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlElementJoinNodes.java

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*

* Contributors:

* dmccann - October 22/2010 - 2.1.2 - Initial implementation

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/ApplicationResolver.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

jar/org/eclipse/persistence/internal/helper/VendorNameToPlatformMapping.properties

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* Contributors:

* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856:

MappedSuperclasses from XML are not being initialized properly

* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/converters/TypeConverterMetadata.java

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* Contributors:

* bdoughan - October 21/2009 - 2.0 - Initial implementation

*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/XMLCollectionReferenceMappingMarshalNodeValue.java

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 * dmccann - June 29/2009 - 2.0 - Initial implementation
 */
```

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```
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlElementRef.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlBindings.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAnyElement.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlSchemaTypes.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/package-info.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAccessType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlJavaTypeAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/JavaType.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAttribute.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlValue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAccessOrder.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlSchema.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlElementWrapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlSchemaType.java
```

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlElements.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlNsForm.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlEnumValue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlJavaTypeAdapters.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlElement.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/ObjectFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAnyAttribute.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlRootElement.java
*
/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlElementRefs.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlTransient.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/xmlmodel/XmlEnum.java

```

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*

```

```

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```

```

*   Blaise Doughan - 2.4 - initial implementation

```

```

*****/

```

```

grammar JSON;
options {
    output=AST;
}

```

```

tokens {
    OBJECT;
    PAIR;
    STRING;
}

```

```
NUMBER;
ARRAY;
TRUE;
FALSE;
NULL;
}
```

```
@lexer::header {
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*****/
package org.eclipse.persistence.internal.oxm.record.json;
}
```

```
@header {
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*****/
package org.eclipse.persistence.internal.oxm.record.json;
}
```

```
// LEXER
```

```
String : "" Char* "";
```

```
fragment Char : ~("|\\)
| \"\"
| '\\\\'
```

```

    | '\V'
    | '\\b'
    | '\\f'
    | '\\n'
    | '\\r'
    | '\\t'
    | '\\u' Hex_Digit Hex_Digit Hex_Digit Hex_Digit;

fragment Hex_Digit : ('0'..'9'|'a'..'f'|'A'..'F');

Number : Int Frac? Exp?;

fragment Int : '-'? Digits;

fragment Frac : '.' Digits;

fragment Exp : 'E' Digits;

fragment Digits : '0'..'9'+;

fragment E : ('e'|'E') ('+'|'-')?;

Whitespace : (' '|'\r'|\t'|\u000C'|\n')+ {
    $channel = HIDDEN; };

// PARSER

message : object | array;

object : '{' (pair (',' pair)*)? '}' -> ^(OBJECT pair*);

pair :String ':' value -> ^(PAIR String value);

array : '[' (value (',' value)*)? ']' -> ^(ARRAY value*);

value : String -> ^(STRING String)
    |   Number -> ^(NUMBER Number)
    |   object
    |   array
    |   'true' -> TRUE
    |   'false' -> FALSE
    |   'null' -> NULL
    ;

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/json/JSON.g

```

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*
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*   Oracle - initial API and implementation from Oracle TopLink
*   11/13/2009-2.0 mobrien - 294765: MapKey keyType DirectToField processing
*     should return attributeClassification class in getMapKeyTargetType when
*     accessor.attributeField is null in the absence of a MapKey annotation
*   11/10/2011-2.4 Guy Pelletier
*
*   - 357474: Address primaryKey option from tenant discriminator column
*   25/05/2012-2.4 Guy Pelletier
*   - 354678: Temp classloader is still being used during metadata processing
*****/

```

Found in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/foundation/AbstractColumnMapping.java

```

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*
* Contributors:
*   Oracle - initial API and implementation from Oracle TopLink
*   09/09/2011-2.3.1 Guy Pelletier
*   - 356197: Add new VPD type to MultitenantType
*   09/14/2011-2.3.1 Guy Pelletier
*   - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
*****/

```

Found

in path(s):

```

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-

```

jar/org/eclipse/persistence/tools/schemaframework/DatabaseObjectDefinition.java

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* Contributors:

* mmacivor - September 9/2009 - 1.0 - Initial implementation

*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipse-link-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/DomToXMLEventWriter.java

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* 02/02/2009-2.0 Chris delahunt

* - 241765: JPA 2.0 Derived identities

* 04/24/2009-2.0 Guy Pelletier

* - 270011: JPA 2.0 MappedById support

* 10/21/2009-2.0 Guy Pelletier

* - 290567: mappedbyid support incomplete

* 12/17/2010-2.2 Guy Pelletier

* - 330755: Nested embeddables can't be used as embedded ids

* 11/10/2011-2.4 Guy Pelletier

* - 357474: Address primaryKey option from tenant discriminator column

* 14/05/2012-2.4 Guy Pelletier

* - 376603: Provide for table per tenant support for multitenant applications

* 08/20/2012-2.4 Guy Pelletier

* - 381079: EclipseLink dynamic entity does not support embedded-id

*/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/CMP3Policy.java

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* Contributors:
* 08/10/2009-2.0 Guy Pelletier
* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
* 11/20/2009-2.0 Guy Pelletier/Mitesh Meswani
* - 295376: Improve usability of MetaModel generator
* 04/29/2010-2.0.3 Guy Pelletier
* - 311020: Canonical model generator should not
throw an exception when no persistence.xml is found
* 06/01/2010-2.1 Guy Pelletier
* - 315195: Add new property to avoid reading XML during the canonical model generation
*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/modelgen/objects/PersistenceUnitReader.java

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jar/org/eclipse/persistence/jpa/jpql/parser/BetweenExpression.java
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*  
* Contributors:  
* 08/10/2009-2.0 Guy Pelletier  
* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes  
* 04/27/2010-2.1 Guy Pelletier  
* - 309856: MappedSuperclasses from XML are not being initialized properly  
* 06/14/2010-2.2 Guy Pelletier  
* - 264417: Table generation is incorrect  
for JoinTables in AssociationOverrides  
* 08/12/2010-2.2 Guy Pelletier  
* - 298118: canonical metamodel generation with untyped Map throws NPE  
* 08/25/2010-2.2 Guy Pelletier  
* - 309445: CanonicalModelProcessor process all files  
* 10/18/2010-2.2 Guy Pelletier  
* - 322921: OutOfMemory in annotation processor  
* 11/23/2010-2.2 Guy Pelletier  
* - 330660: Canonical model generator throws ClassCastException when using package-info.java  
*/
```

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/modelgen/CanonicalModelProcessor.java
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*  
* Contributors:  
* Oracle - initial API and implementation from Oracle TopLink  
* 05/16/2008-1.0M8 Guy Pelletier  
* - 218084: Implement metadata merging functionality between mapping files  
*/
```


- * 06/09/2009-2.0 Guy Pelletier
 - * - 249037: JPA 2.0 persisting list item index
 - * 04/27/2010-2.1 Guy Pelletier
 - * - 309856: MappedSuperclasses
from XML are not being initialized properly
 - * 03/24/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 1)
 - * 04/05/2011-2.3 Guy Pelletier
 - * - 337323: Multi-tenant with shared schema support (part 3)
- *****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/DiscriminatorColumnMetadata.java
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* Contributors:
* bdoughan - initial implementation
* tware - initial unmarshall method
*****/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/xmladapters/LinkAdapter.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 12/17/2010-2.2 Guy Pelletier
* - 330755: Nested embeddables can't be used as embedded ids
*****/

- * 11/10/2011-2.4 Guy Pelletier
- * - 357474: Address primaryKey option from tenant discriminator column
- * 14/05/2012-2.4 Guy Pelletier
- * - 376603: Provide

for table per tenant support for multitenant applications

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/CMPPolicy.java

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*

* Contributors:

- * 03/26/2008-1.0M6 Guy Pelletier
- * - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema
- * 03/27/2009-2.0 Guy Pelletier
- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/VariableOneToOne.java

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* Contributors:

- * 05/16/2008-1.0M8 Guy Pelletier
- * - 218084: Implement metadata merging functionality between mapping files
- * 12/12/2008-1.1 Guy Pelletier
- * - 249860: Implement table per class inheritance support.
- * 03/27/2009-2.0 Guy Pelletier

- * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
- * 03/08/2010-2.1
- Guy Pelletier
- * - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 05/14/2010-2.1 Guy Pelletier
- * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- * 08/04/2010-2.1.1 Guy Pelletier
- * - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
- * 01/25/2011-2.3 Guy Pelletier
- * - 333913: @OrderBy and <order-by/> without arguments should order by primary
- * 03/24/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 1)
- * 04/05/2011-2.3 Guy Pelletier
- * - 337323: Multi-tenant with shared schema support (part 3)
- * 07/03/2011-2.3.1 Guy Pelletier
- * - 348756: m_cascadeOnDelete boolean should be changed to Boolean
- * 07/06/2011-2.3.1 Guy Pelletier
- * - 349906: NPE while
using eclipselink in the application
- * 25/05/2012-2.4 Guy Pelletier
- * - 354678: Temp classloader is still being used during metadata processing

*****/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/ORMetadata.java

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- * - 218084: Implement metadata merging functionality between mapping files
- * 04/27/2010-2.1 Guy Pelletier
- * - 309856: MappedSuperclasses from XML are not being initialized properly
- * 03/24/2011-2.3 Guy Pelletier

*

- 337323: Multi-tenant with shared schema support (part 1)

Found in path(s):

- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/cache/CacheMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/TransientAccessor.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/locking/OptimisticLockingMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/cache/TimeOfDayMetadata.java
- * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/QueryHintMetadata.java

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*

* Contributors:

- * Gordon Yorke - Initial Feature development

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1.719 netty-resolver 4.1.71.Final

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jar/io/netty/resolver/DefaultNameResolver.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/AddressResolver.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java

*

/opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/HostsFileParser.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/InetAddressResolver.java

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* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/HostsFileEntries.java

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* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-jar/io/netty/resolver/package-
info.java
```

```
*
* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
jar/io/netty/resolver/NoopAddressResolverGroup.java
```

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* /opt/cola/permits/1272337418_1644993414.29/0/netty-resolver-4-1-71-final-sources-
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1.720 jaxb2-basics-tools 1.11.1

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1.721 netty-buffer 4.1.71.Final

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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java

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*

/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java

```
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
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jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/ByteBufInputStream.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
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/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/CompositeByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PooledByteBufAllocator.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PoolArena.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/ByteBufAllocator.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/ByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/SlicedByteBuf.java
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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolChunkList.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledByteBuf.java
*
/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PoolSubpage.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnpooledDirectByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/package-info.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SwappedByteBuf.java
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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/DuplicatedByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/Unpooled.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ByteBufUtil.java

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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java

* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java

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/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java

* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java

* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java

* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/SearchProcessor.java

* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java

* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java

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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PoolArenaMetric.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/HeapByteBufUtil.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PoolChunkListMetric.java
*
/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/UnsafeByteBufUtil.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/PoolChunkMetric.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-
jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/LongPriorityQueue.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/search/package-info.java
*

/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SizeClasses.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/LongLongHashMap.java

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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/WrappedByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
*
/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
*
/opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/cola/permits/1272337415_1644993365.21/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/ByteBufHolder.java

1.722 dozer 5.5.1

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/ByteConverter.java

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/api/TypeMappingOption.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/event/EventManager.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/propertydescriptor/JavaBeanPropertyDescriptor.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/propertydescriptor/DeepHierarchyElement.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/inject/Inject.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerEventListener.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/generator/GeneratorUtils.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/builder/DestBeanBuilderCreator.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/fieldmap/CustomGetSetMethodFieldMap.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/DozerBeanMapperSingletonWrapper.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/ELEngine.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/builder/BuilderUtil.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/api/FieldsMappingOptions.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/FieldDefinition.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/propertydescriptor/CustomGetSetPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticsInterceptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/event/DozerEventType.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/event/DozerEventManager.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerInitializer.java
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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/BeanCreationStrategy.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/builder/BeanBuilderCreationStrategy.java

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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/CustomFieldMapper.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/TypeResolver.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/ResourceLoader.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/DozerCacheType.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/DozerBuilder.java

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/CopyByReferenceContainer.java

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*

/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/DozerCache.java

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/jmx/JMXPlatform.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/XMLBeanFactory.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/metadata/DozerMappingMetadata.java

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticsManagerImpl.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/EnumConverter.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/TypeMappingOptions.java

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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/ConversionException.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/MapperAware.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/GetterSetterPropertyDescriptor.java

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/AllowedExceptionContainer.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/CacheEntry.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/MappingsSource.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/DateFormatContainer.java

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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/XMLParser.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-

jar/org/dozer/metadata/FieldMappingMetadata.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/MappingUtils.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/propertydescriptor/XmlBeanPropertyDescriptor.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DozerClassLoader.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/MappingsParser.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/factory/ConstructionStrategies.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/converters/PrimitiveOrWrapperConverter.java
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 /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/JAXBBeanFactory.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/fieldmap/ExcludeFieldMap.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/converters/XMLGregorianCalendarConverter.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/BeanFactory.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/propertydescriptor/MapPropertyDescriptor.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticType.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/propertydescriptor/AbstractPropertyDescriptor.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/config/PropertyConstants.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/BeanBuilder.java
 *
 /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerModule.java
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 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/classmap/generator/JavaBeanFieldsDetector.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/config/GlobalSettings.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/CustomConverter.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DefaultClassLoader.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/inject/DozerBeanContainer.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/loader/xml/DozerResolver.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DeepHierarchyUtils.java
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 /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/converters/CalendarConverter.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/Statistic.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/cache/DozerCacheManager.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/jmx/DozerAdminControllerMBean.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
 jar/org/dozer/util/BridgedMethodFinder.java

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/StringConstructorConverter.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/Mapper.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/CustomConverterContainer.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/ClassMapBuilder.java
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 /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/ExpressionElementReader.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/XMLParserFactory.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/IntegerConverter.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/factory/DestBeanCreator.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/FieldsMappingOption.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/HintContainer.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/ClassMap.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/DozerConverter.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DozerProxyResolver.java
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 /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/FieldMap.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/jmx/DozerStatisticsControllerMBean.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/CopyByReference.java
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 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/MappingProcessor.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/Cache.java
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 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/MappingValidator.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/CustomMappingsLoader.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/event/DozerEvent.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/jmx/JMXPlatformImpl.java
 * /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-

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jar/org/dozer/loader/LoadMappingsResult.java
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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/api/TypeMappingBuilder.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/MappingFileData.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/LogMsgFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/converters/DateConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/ReflectionUtils.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/propertydescriptor/DozerPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/Configuration.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/Mapping.java
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jar/org/dozer/metadata/ClassMappingMetadata.java
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jar/org/dozer/metadata/DozerClassMappingMetadata.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/CustomConverterDescription.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/IteratorUtils.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/jmx/DozerAdminController.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/generator/BeanMappingGenerator.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/osgi/Activator.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/MappingDirection.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/MappingException.java
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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/DozerField.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/DozerClass.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/converters/LongConverter.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/classmap/ClassMapKeyFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/CacheManager.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/cache/CacheKeyFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-
jar/org/dozer/loader/xml/MappingFileReader.java
*

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/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/stats/StatisticEntry.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/SelfPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/PropertyDescriptorFactory.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/metadata/DozerFieldMappingMetadata.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/api/TypeDefinition.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/GenericFieldMap.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/jmx/DozerStatisticsController.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/loader/xml/SimpleElementReader.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DozerConstants.java
*
/opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/classmap/RelationshipType.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/HibernateProxyResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/util/DefaultProxyResolver.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/inject/BeanRegistry.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/fieldmap/MapFieldMap.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):

* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/beanmapping.xsd

1.723 netty 4.1.71.Final

1.723.1 Available under license :

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

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2.0

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* /opt/cola/permits/1272337423_1644993381.49/0/netty-example-4-1-71-final-jar/META-INF/maven/io.netty/netty-example/pom.xml

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

Manifest-Version: 1.0

Implementation-Title: Netty/Example

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name:

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.example

Implementation-Version: 4.1.71.Final

Built-By: root

Bnd-LastModified: 1639059112249

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.barchart.udt;version="[2.3,3)",com.google.protobuf;version="[2.6,3)",io.netty.bootstrap;version="[4.1,5)",io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.group;version="[4.1,5)",io.netty.channel.local;version="[4.1,5)",io.netty.channel.nio;version="[4.1,5)",io.netty.channel.oio;version="[4.1,5)",io.netty.channel.rxtx;version="[4.1,5)",io.netty.channel.sctp;version="[4.1,5)",io.netty.channel.sctp.nio;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.channel.socket.nio;version="[4.1,5)",io.netty.channel.udt;version="[4.1,5)",io.netty.channel.udt.nio;version="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",i

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Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

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hannel.socket";version="4.1.71",io.netty.example.redis;uses:="io.nett
y.channel";version="4.1.71",io.netty.example.rtx;uses:="io.netty.cha
nnel";version="4.1.71",io.netty.example.sctp;uses:="io.netty.channel"
;version="4.1.71",io.netty.example.sctp.multihoming;version="4.1.71",
io.netty.example.securechat;uses:="io.netty.channel,io.netty.channel.
socket,io.netty.handler.ssl";version="4.1.71",io.netty.example.socksp
roxy;uses:="io.netty.channel,io.netty.channel.socket,io.netty.handler
.codec.socksx,io.netty.util.concurrent";version="4.1.71",io.netty.exa
mple.spdy.client;uses:="io.netty.channel,io.netty.channel.socket,io.n

etty.handler.codec.http,io.netty.handler.ssl,io.netty.util.internal.l
ogging";version="4.1.71",io.netty.example.spdy.server;uses:="io.netty
.channel,io.netty.channel.socket,io.netty.handler.ssl";version="4.1.7
1",io.netty.example.stomp;uses:="io.netty.channel,io.netty.handler.co
dec.stomp";version="4.1.71",io.netty.example.stomp.websocket;uses:="i
o.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.hand
ler.codec,io.netty.handler.codec.http,io.netty.handler.codec.http.web
socketx,io.netty.handler.codec.stomp,io.netty.util";version="4.1.71",
io.netty.example.stomp.websocket.css;version="4.1.71",io.netty.exempl
e.telnet;uses:="io.netty.channel,io.netty.channel.socket,io.netty.han
dler.ssl";version="4.1.71",io.netty.example.udt.echo.bytes;uses:="io.
netty.buffer,io.netty.channel";version="4.1.71",io.netty.example.udt.
echo.message;uses:="io.netty.channel,io.netty.channel.udt";version="4
.1.71",io.netty.example.udt.echo.rendezvous;uses:="io.netty.channel,i
o.netty.channel.udt";version="4.1.71",io.netty.example.udt.echo.rende
zvousBytes;uses:="io.netty.buffer,io.netty.channel";version="4.1.71",
io.netty.example.uptime;uses:="io.netty.channel";version="4.1.71",io.
netty.example.worldclock;uses:="com.google.protobuf,io.netty.channel,
io.netty.channel.socket,io.netty.handler.ssl";version="4.1.71"

Bundle-Name: Netty/Example

Bundle-Version: 4.1.71.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_312

Implementation-URL: <https://netty.io/netty-example/>

Found in path(s):

* /opt/cola/permits/1272337423_1644993381.49/0/netty-example-4-1-71-final-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1272337423_1644993381.49/0/netty-example-4-1-71-final-jar/io/netty/example/stomp/websocket/stomp.js

1.724 netty-transport 4.1.71.Final

1.724.1 Available under license :

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/AbstractEventLoop.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannelId.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:

```
* <ul>
* <li>{ @link
ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </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} &lt; { @link Channel} &gt; {
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </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} &lt; Message &gt; {
*     private final { @link AttributeKey} &lt; { @link Boolean} &gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute} &lt; { @link Boolean} &gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);

```

```

*     <b>attr.set(true)</b>;
*   } else (message instanceof GetDataMessage) {
*     if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*       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}&lt;{@link Channel}&gt; {
*
*   private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*   {@code @Override}
*   public void initChannel({@link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* }
* </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](http://www.javaconcurrencyinpractice.com/annotations/doc/).

* <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/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelHandler.java

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/nio/NioChannelOption.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/internal/ChannelUtils.java

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```
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
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Found in path(s):

- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AbstractServerChannel.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
- *
- /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
- *
- /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelMetadata.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelPipeline.java
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- /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/bootstrap/package-info.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ServerChannel.java
- * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelFuture.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
 jar/io/netty/channel/socket/package-info.java
 * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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 * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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 * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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 jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
 * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
 jar/io/netty/channel/group/DefaultChannelGroupFuture.java
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 jar/io/netty/channel/embedded/package-info.java
 * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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 jar/io/netty/channel/SingleThreadEventLoop.java
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 * /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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jar/io/netty/channel/ChannelFutureListener.java
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jar/io/netty/channel/AbstractChannel.java
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jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/FailedChannelFuture.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/local/LocalEventLoopGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/DefaultChannelPromise.java
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/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/Channel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/local/LocalServerChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannel.java
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jar/io/netty/channel/local/package-info.java
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jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/nio/AbstractNioByteChannel.java

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelPromise.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/EventLoopGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-


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jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/local/LocalAddress.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/nio/NioSocketChannel.java
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/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/nio/package-info.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/package-info.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
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jar/io/netty/channel/DefaultFileRegion.java
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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/CoalescingBufferQueue.java
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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io.netty/channel/oio/OioByteStreamChannel.java

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Found in path(s):

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AddressedEnvelope.java

*

/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelId.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelMatcher.java

* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
*
/opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java

1.725 netty-transport-native-epoll 4.1.71.Final

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* /opt/cola/permits/1272337444_1644993376.23/0/netty-transport-native-epoll-4-1-71-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1272337444_1644993376.23/0/netty-transport-native-epoll-4-1-71-final-sources-jar/netty_epoll_linuxsocket.c

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1.726 netty-transport-classes-epoll

4.1.71.Final

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*/

/**

* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.

*/

/**

* Set the { @code TCP_QUICKACK } option on the socket.
* See [TCP_QUICKACK](https://linux.die.net/man/7/tcp)
* for more details.

*/

Found in path(s):

* /opt/cola/permits/1272337408_1644993366.57/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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* /opt/cola/permits/1272337408_1644993366.57/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java

*

/opt/cola/permits/1272337408_1644993366.57/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

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*/

/**

* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.

* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

* Allowing them being read would mean anyone with access to the channel could get them.

*/

Found in path(s):

* /opt/cola/permits/1272337408_1644993366.57/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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/opt/cola/permits/1272337408_1644993366.57/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java

* /opt/cola/permits/1272337408_1644993366.57/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java

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jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1272337408_1644993366.57/0/netty-transport-classes-epoll-4-1-71-final-sources-
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1.727 jaxb2-basics-runtime 1.11.1

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1.728 j2v8_win32_x86 4.6.0

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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
*

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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
*
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
*
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
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jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/package-info.java
*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java

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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java

```
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/AsyncRunnable.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/GroupsConverter.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/BouncyCastle.java
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jar/io/netty/handler/flush/FlushConsolidationHandler.java
```

```
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
```

```
*
```


/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/flow/package-info.java
*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/logging/LoggingHandler.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/logging/package-info.java

*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/logging/LogLevel.java

*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/TimeoutException.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/package-info.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslHandler.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/stream/ChunkedStream.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/IdleState.java

*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/package-info.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/package-info.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-

jar/io/netty/handler/ssl/package-info.java

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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslClosedEngineException.java
*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java

* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-

jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
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jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-  
jar/io/netty/handler/ssl/ClientAuth.java  
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
*  
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java  
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
*

/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-


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jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
*
/opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java

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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
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INF/maven/io.netty/netty-handler/pom.xml
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jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_filedescriptor.c
*
/opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_socket.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_socket.h
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
*
/opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_errors.h
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_errors.c
*
/opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
*

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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/Unix.java

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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_limits.h
*

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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_limits.c

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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
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jar/io/netty/channel/unix/DomainDatagramChannel.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainDatagramPacket.java
*
/opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java

* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/Buffer.java

*

/opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_buffer.c

* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_buffer.h

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Found in path(s):

* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java

* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_jni.h

1.731 oshi-core 2.6-m-java7

1.731.1 Available under license :

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1.732 netty-codec 4.1.71.Final

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```
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
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- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
- *
- /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/Delimiters.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
- *
- /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
- *
- /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
- * /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/package-info.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-

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jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageToMessageEncoder.java

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-

```
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.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/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java`

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`/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java`

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java

*

/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java

*

/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-

jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java

*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java

*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/ValueConverter.java

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/**

* Utility class for {@link ByteBuf} that encodes and decodes to and from

* [Base64](https://en.wikipedia.org/wiki/Base64) notation.

* <p>

* The encoding and decoding algorithm in this class has been derived from

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* Base64 Encoder/Decoder.

*/

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/base64/Base64.java

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* Enumeration of supported Base64 dialects.

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/GzipOptions.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/DeflateOptions.java
*
/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java

*

/opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DateFormatter.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CodecOutputList.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/Headers.java

1.733 jaxb2-basics 1.11.1

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1.734 avro-guava-dependencies 1.8.2-cdh6.3.0

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1.735 hikaricp 2.6.1

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jar/com/zaxxer/hikari/pool/HikariPool.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
*
/opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/metrics/MetricsTracker.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/HikariJNDIFactory.java

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jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/pool/PoolBase.java
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* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
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* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
*
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/util/PropertyElf.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/pool/ProxyStatement.java

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jar/com/zaxxer/hikari/util/ClockSource.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/metrics/PoolStats.java
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jar/com/zaxxer/hikari/util/DriverDataSource.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/HikariConfig.java
*
/opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/util/FastList.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-
jar/com/zaxxer/hikari/pool/ProxyLeakTask.java
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1.736 websocket-api 9.3.25.v20180904

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* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/InvalidWebSocketException.java

* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/WebSocketException.java

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/opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/BadPayloadException.java

* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/WebSocketPartialListener.java

* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/extensions/ExtensionFactory.java

* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/extensions/ExtensionConfig.java

* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/CloseStatus.java

* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/api/WebSocketPolicy.java

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*
/opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/extensions/OutgoingFrames.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/package-info.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/PolicyViolationException.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/extensions/IncomingFrames.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/StatusCode.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/extensions/Frame.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/MessageTooLargeException.java
*
/opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/WebSocketTimeoutException.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/annotations/OnWebSocketMessage.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
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jar/org/eclipse/jetty/websocket/api/util/package-info.java
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* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/util/WSURI.java
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jar/org/eclipse/jetty/websocket/api/extensions/Extension.java
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jar/org/eclipse/jetty/websocket/api/SuspendToken.java
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jar/org/eclipse/jetty/websocket/api/ProtocolException.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/annotations/OnWebSocketFrame.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
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jar/org/eclipse/jetty/websocket/api/Session.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/CloseException.java
*
/opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/util/QuoteUtil.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/annotations/OnWebSocketConnect.java

```

```

* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/WebSocketBehavior.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/BatchMode.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/extensions/package-info.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/WebSocketFrameListener.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/WriteCallback.java
*
/opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/WebSocketListener.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/WebSocketPingPongListener.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/UpgradeException.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/UpgradeResponse.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/WebSocketAdapter.java
* /opt/cola/permits/1272432668_1645007155.15/0/websocket-api-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/api/annotations/package-info.java

```

1.737 websocket-server 9.3.25.v20180904

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```
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jar/org/eclipse/jetty/websocket/server/WebSocketUpgradeHandlerWrapper.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/ServletWebSocketResponse.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketUpgradeFilter.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/ServletWebSocketRequest.java
*
/opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/pathmap/PathSpec.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketHandler.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/pathmap/RegexPathSpec.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/MappedWebSocketCreator.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketHandshake.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketServerFactory.java
*
/opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketServerConnection.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/NativeWebSocketConfiguration.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/HandshakeRFC6455.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/NativeWebSocketServletContainerInitializer.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/package-info.java
* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/server/pathmap/ServletPathSpec.java
```

1.738 jetty-util 9.3.25.v20180904

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```

```
/**
```

```
* Utf8 Appendable abstract base class
```

```
*
```

```
* This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8 encoded bytes, that are converted into characters.
```

```
*
```

```
* This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is appended to the string buffer.
```

```
*
```

```
* The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
```

```
* http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
```

```
*
```

```
* License information
```

```
for Bjoern Hoehrmann's code:
```

```
*
```

```
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* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ssl/SslSelectionDump.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/Atomics.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/Jetty.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/Container.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java

*

/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/security/CertificateValidator.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/ScheduledExecutorScheduler.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/CompletableCallback.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ArrayTrie.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/MultiPartOutputStream.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/MultiReleaseJarFile.java

*

/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/BufferUtil.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ArrayUtil.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-

```

jar/org/eclipse/jetty/util/InetAddressSet.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/B64Code.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/DeprecationWarning.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/thread/Locker.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/Utf8StringBuffer.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/StringUtil.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/thread/ShutdownThread.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/log/JettyAwareLogger.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/resource/FileResource.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/DecoratedObjectFactory.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/Decorator.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/preventers/package-info.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/component/FileDestroyable.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/FuturePromise.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/Fields.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/PatternMatcher.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/preventers/Java2DLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/component/ContainerLifecycle.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/Utf8LineParser.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/security/package-info.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/TypeUtil.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/TreeTrie.java

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* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/ExecutorThreadPool.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/strategy/ProduceConsume.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/log/package-info.java

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* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/HttpCookieStore.java

*

/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/package-info.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/RegexSet.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ssl/AliasedX509ExtendedKeyManager.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/log/Log.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/MemoryUtils.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ConstantThrowable.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/Graceful.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ConcurrentHashSet.java

*

/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ByteArrayISO8859Writer.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ArrayTernaryTrie.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/JavaVersion.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/log/Slf4jLog.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/strategy/ExecuteProduceConsume.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/Callback.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/LeakDetector.java

*

/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/AbstractLifecycle.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/StopLifecycle.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-

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jar/org/eclipse/jetty/util/thread/TimerScheduler.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/log/StdErrLog.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/MultiMap.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/security/Credential.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/LazyList.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/resource/URLResource.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/HostMap.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/Loader.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/log/LoggerLog.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/AttributesMap.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/preventers/GCThreadLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/Trie.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/statistic/CounterStatistic.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/IteratingNestedCallback.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/thread/package-info.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/security/Password.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/resource/BadResource.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/UrlEncoded.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/log/JettyLogHandler.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/log/JavaUtilLog.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/preventers/SecurityProviderLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/component/Destroyable.java

```

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/IPAddressMap.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/FutureCallback.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/ThreadClassLoaderScope.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/Resource.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/Scheduler.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/EmptyResource.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/annotation/Name.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/statistic/SampleStatistic.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/DumpableCollection.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/annotation/package-info.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/ResourceFactory.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/ThreadPool.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/JarResource.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ssl/SniX509ExtendedKeyManager.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/strategy/ProduceExecuteConsume.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/preventers/LoginConfigurationLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/URIUtil.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/JarFileResource.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/Sweeper.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/preventers/DOMLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/BlockingArrayQueue.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-

jar/org/eclipse/jetty/util/component/package-info.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/Attributes.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/preventers/AWTLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/MultiPartInputStreamParser.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/MultiException.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/Dumpable.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/ExecutionStrategy.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/IntrospectionUtil.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/CountingCallback.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/LifeCycle.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/BlockingCallback.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ssl/package-info.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/log/AbstractLogger.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/statistic/package-info.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/AbstractTrie.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/log/StacklessLogging.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/annotation/ManagedObject.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/Utf8StringBuilder.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/HostPort.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/annotation/ManagedAttribute.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/IO.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/SocketAddressResolver.java

* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/IteratingCallback.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/DateCache.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/ResourceCollection.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/MultiPartWriter.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/annotation/ManagedOperation.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ssl/SslContextFactory.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/preventers/LDAPLeakPreventer.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/component/FileNoticeLifeCycleListener.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/PathWatcher.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/resource/PathResource.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/SharedBlockingCallback.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ClassLoadingObjectInputStream.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/log/Logger.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/thread/strategy/ExecutingExecutionStrategy.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/Scanner.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/IncludeExclude.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ConcurrentArrayQueue.java
*
/opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/Promise.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/IncludeExcludeSet.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-jar/org/eclipse/jetty/util/ReadLineInputStream.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-

```
jar/org/eclipse/jetty/util/Uptime.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/ssl/X509.java
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/ArrayQueue.java
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```

```
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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
```

```
Found in path(s):
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/security/Constraint.java
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```

```
/*
 * @(#)UnixCrypt.java 0.9 96/11/25
 *
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 *
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 * all copies.
 */
```

```
Found in path(s):
* /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/util/security/UnixCrypt.java
```

1.739 jetty-schemas 3.1

1.739.1 Available under license :

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CONFIDENTIAL. NONE means that the application does not changed in transit. CONFIDENTIAL means that the application CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

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* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-common_3_0.xsd

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* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_5.xsd

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* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_web_services_client_1_2.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/web-jsptaglibrary_2_0.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/web-jsptaglibrary_2_1.xsd

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* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/jsp_2_0.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/jsp_2_1.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/jsp_2_2.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_web_services_1_3.xsd
*
/opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-app_3_0.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/j2ee_1_4.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_6.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_web_services_client_1_3.xsd

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guarantee element specifies that the communication between client and server should be NONE, INTEGRAL, or

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Used in: user

Found in path(s):

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-app_2_3.dtd

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* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/jspxml_2_0.xsd

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Found in path(s):

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/j2ee_web_services_1_1.xsd

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/j2ee_web_services_client_1_1.xsd

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guarantee element specifies that the communication between client and server should be NONE, INTEGRAL, or

CONFIDENTIAL. NONE means that the application does not require any transport guarantees. A value of INTEGRAL means that the application requires that the data sent between the client and server be sent in such a way that it can't be changed in transit. CONFIDENTIAL means that the application requires that the data be transmitted in a

fashion that prevents other entities from observing the contents of the transmission. In most cases, the presence of the INTEGRAL or CONFIDENTIAL flag will indicate that the use of SSL is required.

Found in path(s):

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-app_2_2.dtd

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<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-common_3_1.xsd

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Found in path(s):

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/web-jsptaglibrary_1_1.dtd

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/web-jsptaglibrary_1_2.dtd

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CONFIDENTIAL. NONE means that the application does not
changed in transit. CONFIDENTIAL means that the application
CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-app_2_4.xsd

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Found in path(s):

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-app_3_1.xsd

* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/jsp/resources/jsp_2_3.xsd

```
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-fragment_3_1.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_web_services_client_1_4.xsd
*
/opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_web_services_1_4.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/javaee_7.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/permissions_7.xsd
```

1.740 jetty-webapp 9.3.25.v20180904

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Found in path(s):

```
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-jar/about.html
```

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Found in path(s):

```
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-jar/org/eclipse/jetty/webapp/package-info.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-jar/org/eclipse/jetty/webapp/MetaDataComplete.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-jar/org/eclipse/jetty/webapp/FragmentDescriptor.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-jar/org/eclipse/jetty/webapp/MetaData.java
```

```

*
/opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/CachingWebAppClassLoader.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/DefaultsDescriptor.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/JarScanner.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/IterativeDescriptorProcessor.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/WebAppClassLoader.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/JettyWebXmlConfiguration.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/WebXmlConfiguration.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/DiscoveredAnnotation.java
*
/opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/ClasspathPattern.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/CloneConfiguration.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/WebApplicationContext.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/WebInfConfiguration.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/AbstractConfiguration.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/WebDescriptor.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/StandardDescriptorProcessor.java
*
/opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/Ordering.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/Configuration.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/DescriptorProcessor.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/FragmentConfiguration.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/Origin.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/Descriptor.java
* /opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/webapp/MetaInfConfiguration.java
*

```

/opt/cola/permits/1272432776_1645007157.19/0/jetty-webapp-9-3-25-v20180904-sources-jar/org/eclipse/jetty/webapp/OverrideDescriptor.java

1.741 websocket-common 9.3.25.v20180904

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```
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/JettyAnnotatedImpl.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/ExtensionStack.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/compress/PerMessageDeflateExtension.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/message/SimpleBinaryMessage.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/identity/IdentityExtension.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/message/SimpleTextMessage.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/fragment/FragmentExtension.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/message/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/AcceptHash.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/SessionFactory.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/scopes/WebSocketContainerScope.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/CloseFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/IoState.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/fragment/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
```



```

jar/org/eclipse/jetty/websocket/common/util/TextUtil.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/io/http/HttpResponseHeaderParser.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/events/AbstractEventDriver.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/extensions/WebSocketExtensionFactory.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/WebSocketRemoteEndpoint.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/events/JettyAnnotatedScanner.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/message/Utf8CharBuffer.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/events/EventDriver.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/scopes/WebSocketSessionScope.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/events/ParamList.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/message/MessageReader.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/scopes/SimpleContainerScope.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/message/MessageWriter.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/CloseInfo.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/frames/DataFrame.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/message/MessageInputStream.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/RemoteEndpointFactory.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/events/annotated/AbstractMethodAnnotationScanner.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/extensions/compress/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/frames/ContinuationFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/frames/ReadOnlyDelegatedFrame.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/io/FutureWriteCallback.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-

```

jar/org/eclipse/jetty/websocket/common/frames/TextFrame.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/ConnectionState.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/util/Utf8PartialBuilder.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/events/annotated/OptionalSessionCallableMethod.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/io/http/HttpResponseHeaderParseListener.java
 *
 /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/io/payload/package-info.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/Parser.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/events/annotated/EventMethod.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/events/annotated/EventMethods.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/extensions/package-info.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/io/FramePipes.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/extensions/compress/XWebkitDeflateFrameExtension.java
 *
 /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/extensions/compress/CompressExtension.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/package-info.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/events/JettyListenerImpl.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/frames/BinaryFrame.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/frames/PingFrame.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/events/JettyAnnotatedMetadata.java
 *
 /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/extensions/compress/DeflateFrameExtension.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/WebSocketSession.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/events/EventDriverImpl.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/BlockingWriteCallback.java
 * /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
 jar/org/eclipse/jetty/websocket/common/extensions/AbstractExtension.java

* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/WebSocketSessionFactory.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/message/MessageOutputStream.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/compress/ByteAccumulator.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/OpCode.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/FrameCaptureExtension.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/ControlFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/PongFrame.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/EventDriverFactory.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/annotated/CallableMethod.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/payload/PayloadProcessor.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/AbstractWebSocketConnection.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/WebSocketFrame.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/message/MessageAppender.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/LogicalConnection.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/identity/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/JettyAnnotatedEventDriver.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/JettyListenerEventDriver.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/payload/DeMaskProcessor.java
*
/opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/FrameFlusher.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/annotated/InvalidSignatureException.java

```
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/Generator.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/websocket/common/util/ReflectUtils.java
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1.742 jetty-security 9.3.25.v20180904

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constraint>
```

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jar/org/eclipse/jetty/security/IdentityService.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/DigestAuthenticator.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/SpnegoLoginService.java
*
/opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/ConstraintAware.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/LoginCallbackImpl.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/package-info.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/ConstraintMapping.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/LoginAuthenticator.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/SpnegoUserIdentity.java
*
/opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/MappedLoginService.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/HashLoginService.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/LoginCallback.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/FormAuthenticator.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/RunAsToken.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/Authenticator.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/SpnegoAuthenticator.java
*
/opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/AbstractUserAuthentication.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/UserDataConstraint.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/DeferredAuthentication.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/RoleRunAsToken.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/LoginService.java

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* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/DefaultUserIdentity.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/ServerAuthException.java
*
/opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/DefaultIdentityService.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/package-info.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/SecurityHandler.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/UserAuthentication.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/JDBCLoginService.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/SpnegoUserPrincipal.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/SessionAuthentication.java
*
/opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/RoleInfo.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
jar/org/eclipse/jetty/security/authentication/ClientCertAuthenticator.java
* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources-
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1.743 websocket-servlet 9.3.25.v20180904

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* /opt/cola/permits/1272432869_1645007161.23/0/websocket-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/servlet/WebSocketServlet.java

* /opt/cola/permits/1272432869_1645007161.23/0/websocket-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/servlet/ServletUpgradeResponse.java

* /opt/cola/permits/1272432869_1645007161.23/0/websocket-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/servlet/WebSocketCreator.java

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* /opt/cola/permits/1272432869_1645007161.23/0/websocket-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/servlet/ServletUpgradeRequest.java

* /opt/cola/permits/1272432869_1645007161.23/0/websocket-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/servlet/UpgradeHttpServletRequestRequest.java

1.744 websocket-client 9.3.25.v20180904

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* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/WebSocketClientConnection.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/WebSocketClient.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/package-info.java
*
/opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/ConnectionManager.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/package-info.java
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* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/UpgradeListener.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/masks/FixedMasker.java
*
/opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/masks/ZeroMasker.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/ClientUpgradeResponse.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/masks/RandomMasker.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/UpgradeConnection.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-

jar/org/eclipse/jetty/websocket/client/masks/Masker.java

* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-

jar/org/eclipse/jetty/websocket/client/io/ConnectPromise.java

1.745 apache-jsp 8.0.33

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1.746 jetty-xml 9.3.25.v20180904

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Found in path(s):

```
* /opt/cola/permits/1272433005_1645007165.81/0/jetty-xml-9-3-25-v20180904-sources-jar/org/eclipse/jetty/xml/XmlAppendable.java
* /opt/cola/permits/1272433005_1645007165.81/0/jetty-xml-9-3-25-v20180904-sources-jar/org/eclipse/jetty/xml/package-info.java
* /opt/cola/permits/1272433005_1645007165.81/0/jetty-xml-9-3-25-v20180904-sources-jar/org/eclipse/jetty/xml/XmlParser.java
* /opt/cola/permits/1272433005_1645007165.81/0/jetty-xml-9-3-25-v20180904-sources-jar/org/eclipse/jetty/xml/XmlConfiguration.java
* /opt/cola/permits/1272433005_1645007165.81/0/jetty-xml-9-3-25-v20180904-sources-jar/org/eclipse/jetty/xml/ConfigurationProcessor.java
*
```

```
/opt/cola/permits/1272433005_1645007165.81/0/jetty-xml-9-3-25-v20180904-sources-jar/org/eclipse/jetty/xml/ConfigurationProcessorFactory.java
```

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```
* /opt/cola/permits/1272433005_1645007165.81/0/jetty-xml-9-3-25-v20180904-sources-jar/about.html
```

1.747 jetty-security 9.3.20.v20170531

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Found in path(s):

```
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-jar/org/eclipse/jetty/security/ServerAuthException.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-jar/org/eclipse/jetty/security/AbstractUserAuthentication.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
```

jar/org/eclipse/jetty/security/UserAuthentication.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/SpnegoUserPrincipal.java
*
/opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/PropertyUserStore.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/ClientCertAuthenticator.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/ConstraintMapping.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/LoginAuthenticator.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/RunAsToken.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/package-info.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/FormAuthenticator.java
*
/opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/ConstraintAware.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/UserDataConstraint.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/RoleInfo.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/LoginCallbackImpl.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/SpnegoUserIdentity.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java
*
/opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/DigestAuthenticator.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/DeferredAuthentication.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/SpnegoAuthenticator.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/RoleRunAsToken.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/IdentityService.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/HashLoginService.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/Authenticator.java

```

*
/opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/SpnegoLoginService.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/LoginCallback.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/DefaultUserIdentity.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/SessionAuthentication.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/JDBCLoginService.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/authentication/package-info.java
*
/opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/SecurityHandler.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/LoginService.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/DefaultIdentityService.java
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/MappedLoginService.java
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//Equivalent to //<user-data-constraint><transport-guarantee>CONFIDENTIAL</transport-guarantee></user-data-
constraint>

```

```

Found in path(s):
* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/security/ConstraintSecurityHandler.java
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1.748 websocket-server 9.3.20.v20170531

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```
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/NativeWebSocketServletContainerInitializer.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketHandler.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/HandshakeRFC6455.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketServerConnection.java
*
/opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/NativeWebSocketConfiguration.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketUpgradeHandlerWrapper.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketUpgradeFilter.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketServerFactory.java
```

```

* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/pathmap/RegexPathSpec.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/MappedWebSocketCreator.java
*
/opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/WebSocketHandshake.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/ServletWebSocketRequest.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/package-info.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/pathmap/PathSpec.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/pathmap/ServletPathSpec.java
* /opt/cola/permits/1272441357_1645007209.84/0/websocket-server-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/server/ServletWebSocketResponse.java

```

1.749 websocket-common 9.3.20.v20170531

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```

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```
* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/common/frames/CloseFrame.java
```

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/io/IOState.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/extensions/FrameCaptureExtension.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/events/annotated/AbstractMethodAnnotationScanner.java

*

/opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/events/JettyAnnotatedScanner.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/message/Utf8CharBuffer.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/events/annotated/OptionalSessionCallableMethod.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/SessionFactory.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/CloseInfo.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/RemoteEndpointFactory.java

*

/opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/message/MessageOutputStream.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/WebSocketSession.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/extensions/compress/PerMessageDeflateExtension.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/util/Utf8PartialBuilder.java

* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/events/EventDriverImpl.java

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1.750 websocket-api 9.3.20.v20170531

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Found in path(s):

```

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Found in path(s):

```

* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/webapp/FragmentDescriptor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/webapp/WebAppContext.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/webapp/DescriptorProcessor.java

```

* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/WebAppClassLoader.java
*
/opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/ClasspathPattern.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/CloneConfiguration.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/MetaInfConfiguration.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/Configuration.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/Ordering.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/package-info.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/WebDescriptor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/WebXmlConfiguration.java
*
/opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/JarScanner.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/MetaData.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/MetaDataComplete.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/WebInfConfiguration.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/Descriptor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/IterativeDescriptorProcessor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/FragmentConfiguration.java
*
/opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/JettyWebXmlConfiguration.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/StandardDescriptorProcessor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/DefaultsDescriptor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/Origin.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/CachingWebAppClassLoader.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/OverrideDescriptor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-

jar/org/eclipse/jetty/webapp/AbstractConfiguration.java

*

/opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-

jar/org/eclipse/jetty/webapp/DiscoveredAnnotation.java

1.752 websocket-client 9.3.20.v20170531

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* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/about.html

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* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/client/io/UpgradeListener.java

* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/client/package-info.java

* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/client/masks/ZeroMasker.java

* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/client/masks/package-info.java

*

/opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/client/masks/Masker.java

* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/client/ClientUpgradeResponse.java

* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/client/io/WebSocketClientSelectorManager.java

```

* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/io/package-info.java
* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/io/WebSocketClientConnection.java
* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/masks/FixedMasker.java
*
/opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/io/ConnectPromise.java
* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/io/ConnectionManager.java
* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/io/UpgradeConnection.java
* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/masks/RandomMasker.java
* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/ClientUpgradeRequest.java
* /opt/cola/permits/1272441464_1645007216.09/0/websocket-client-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/client/WebSocketClient.java

```

1.753 jetty-xml 9.3.20.v20170531

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* /opt/cola/permits/1272441508_1645007207.27/0/jetty-xml-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/xml/ConfigurationProcessorFactory.java
* /opt/cola/permits/1272441508_1645007207.27/0/jetty-xml-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/xml/ConfigurationProcessor.java
* /opt/cola/permits/1272441508_1645007207.27/0/jetty-xml-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/xml/XmlParser.java
* /opt/cola/permits/1272441508_1645007207.27/0/jetty-xml-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/xml/XmlConfiguration.java
*
/opt/cola/permits/1272441508_1645007207.27/0/jetty-xml-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/xml/XmlAppendable.java
* /opt/cola/permits/1272441508_1645007207.27/0/jetty-xml-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/xml/package-info.java

```

1.754 websocket-servlet 9.3.20.v20170531

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* /opt/cola/permits/1272441444_1645007202.95/0/websocket-servlet-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/servlet/WebSocketCreator.java
* /opt/cola/permits/1272441444_1645007202.95/0/websocket-servlet-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/servlet/package-info.java
* /opt/cola/permits/1272441444_1645007202.95/0/websocket-servlet-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/servlet/ServletUpgradeRequest.java
* /opt/cola/permits/1272441444_1645007202.95/0/websocket-servlet-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/servlet/UpgradeHttpRequest.java
*
/opt/cola/permits/1272441444_1645007202.95/0/websocket-servlet-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/servlet/WebSocketServlet.java
* /opt/cola/permits/1272441444_1645007202.95/0/websocket-servlet-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/servlet/WebSocketServletFactory.java
* /opt/cola/permits/1272441444_1645007202.95/0/websocket-servlet-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/websocket/servlet/ServletUpgradeResponse.java
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1.755 jetty-util 9.3.20.v20170531

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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is
 * appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 * inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/Utf8Appendable.java

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* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/component/FileDestroyable.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/TimerScheduler.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java

*

/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/component/Graceful.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/ReadLineInputStream.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/SocketAddressResolver.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/component/Container.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/ssl/package-info.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/Sweeper.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/HostPort.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/annotation/ManagedObject.java

*

/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/log/LoggerLog.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/component/LifeCycle.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/IPAddressMap.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/component/ContainerLifeCycle.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/log/JettyAwareLogger.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/thread/ExecutorThreadPool.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/resource/ResourceCollection.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/annotation/ManagedAttribute.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Fields.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/resource/package-info.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/DeprecationWarning.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ConstantThrowable.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Jetty.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Uptime.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/log/Slf4jLog.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/annotation/ManagedOperation.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/log/JavaUtilLog.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/MultiException.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Decorator.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Callback.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ssl/X509.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/DateCache.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ArrayTrie.java


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*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/Promise.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/security/CertificateValidator.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/component/package-info.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/ssl/AliasedX509ExtendedKeyManager.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/resource/BadResource.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/PathWatcher.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/preventers/LoginConfigurationLeakPreventer.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/log/Log.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/Utf8LineParser.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/Scanner.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/IO.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/resource/URLResource.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/security/package-info.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/resource/JarFileResource.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/resource/ResourceFactory.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/log/StdErrLog.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/annotation/Name.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/log/JettyLogHandler.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/security/Password.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/LazyList.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/component/DumpableCollection.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/component/Dumpable.java
*

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/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/StringUtil.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/AbstractTrie.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/AttributesMap.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/LeakDetector.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/MultiPartInputStreamParser.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/thread/ExecutionStrategy.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ConcurrentArrayQueue.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/HttpCookieStore.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ByteArrayISO8859Writer.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/BlockingArrayQueue.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/RegexSet.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/FuturePromise.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/PatternMatcher.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Utf8StringBuffer.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/statistic/package-info.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Attributes.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/IncludeExclude.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Loader.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/MultiMap.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/URIUtil.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/MultiPartOutputStream.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ArrayTernaryTrie.java

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*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/InetAddressSet.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/FutureCallback.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/resource/EmptyResource.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/ThreadClassLoaderScope.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/strategy/ExecutingExecutionStrategy.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/TypeUtil.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/preventers/DOMLeakPreventer.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/strategy/ExecuteProduceConsume.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/B64Code.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/IncludeExcludeSet.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/component/Destroyable.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/strategy/ProduceExecuteConsume.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/resource/FileResource.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/statistic/CounterStatistic.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/Utf8StringBuilder.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/ssl/SniX509ExtendedKeyManager.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/IntrospectionUtil.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/preventers/LDAPLeakPreventer.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
*
/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/MemoryUtils.java

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* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/QuotedStringTokenizer.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/component/AbstractLifeCycle.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/thread/Scheduler.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/log/AbstractLogger.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/preventers/package-info.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/component/FileNoticeLifeCycleListener.java

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/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/IteratingCallback.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/TreeTrie.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/CountingCallback.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/thread/ScheduledExecutorScheduler.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/Trie.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ssl/SslContextFactory.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ClassLoadingObjectInputStream.java

*

/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/IteratingNestedCallback.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/package-info.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ssl/SslSelectionDump.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/log/StacklessLogging.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/ConcurrentHashSet.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/security/Credential.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/HostMap.java

*

/opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-jar/org/eclipse/jetty/util/thread/ThreadPool.java

* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-

jar/org/eclipse/jetty/util/ArrayQueue.java
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 jar/org/eclipse/jetty/util/preventers/Java2DLeakPreventer.java
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 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
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 *
 /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/thread/strategy/ProduceConsume.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/DecoratedObjectFactory.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/resource/Resource.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/preventers/AWTLeakPreventer.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/ArrayUtil.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
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 jar/org/eclipse/jetty/util/UrlEncoded.java
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 /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/resource/PathResource.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/resource/JarResource.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/log/package-info.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/statistic/SampleStatistic.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/BufferUtil.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/BlockingCallback.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/Atomics.java
 *
 /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/CompletableCallback.java
 * /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
 jar/org/eclipse/jetty/util/component/StopLifeCycle.java

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* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/ShutdownThread.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/thread/package-info.java
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/log/Logger.java
```

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```
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 * @(#)UnixCrypt.java 0.9 96/11/25
 *
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 */
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jar/org/eclipse/jetty/util/security/UnixCrypt.java
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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &amp;
 * 2=DC_CONFIDENTIAL
 */
```

```
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
```

Found in path(s):

```
* /opt/cola/permits/1272441457_1645007206.93/0/jetty-util-9-3-20-v20170531-sources-
jar/org/eclipse/jetty/util/security/Constraint.java
```

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/package.html

* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/package.html

* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/package.html

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/JAXBElement.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlSchema.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlNsForm.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlRootElement.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlNs.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlElement.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
*
/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlIDREF.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlElements.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/PrintConversionEvent.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/ParseConversionEvent.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlTransient.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlElementRef.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlEnum.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlID.java
*
/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/JAXBIntrospector.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlElementRefs.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlEnumValue.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlType.java

* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementDecl.java

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/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlValue.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlRegistry.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/PropertyException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttribute.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Messages.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshallerHandler.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverterInterface.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEvent.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/JAXBSource.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Unmarshaller.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/TypeConstraintException.java
*
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Element.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ContextFinder.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshalException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBContext.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/NotIdentifiableEvent.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/ValidationEventCollector.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-

jar/javax/xml/bind/Marshaller.java
*
/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/DatatypeConverter.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/MarshalException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/util/Messages.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/Messages.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/ValidationEventLocator.java
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jar/javax/xml/bind/util/JAXBResult.java
*
/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Validator.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/ValidationEventHandler.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/ValidationEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/JAXBException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/Messages.properties

* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/Messages.properties

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-

jar/javax/xml/bind/annotation/XmlAccessorOrder.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAccessType.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAnyAttribute.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
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jar/javax/xml/bind/annotation/XmlAccessorType.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlElementWrapper.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlList.java
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jar/javax/xml/bind/GetPropertyAction.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlSeeAlso.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/DataBindingException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXB.java
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jar/javax/xml/bind/JAXBPermission.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/WhiteSpaceProcessor.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/DatatypeConverterImpl.java

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jar/javax/xml/bind/annotation/adapters/package.html
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/package.html

1.763 metrics-servlet 2.2.0

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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

1.766 error_prone_annotations 2.3.4

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* /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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*
 /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-
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```
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-
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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
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1.767 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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jar/org/dozer/converters/ByteConverter.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-
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- * /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/stats/StatisticsInterceptor.java
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- /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/DozerBeanMapper.java
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- * /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/inject/DozerBeanContainer.java
- * /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/classmap/RelationshipType.java
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1.770 json-java 20160810

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1.771 jetty 9.3.25.v20180904

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Found in path(s):

```
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/IdleTimeout.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/package-info.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ssl/SslHandshakeListener.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/WriterOutputStream.java
*
/opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/RuntimeIOException.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ClientConnectionFactory.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ssl/SslClientConnectionFactory.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/AbstractEndPoint.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ConnectionStatistics.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/FillInterest.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/NegotiatingClientConnectionFactory.java
*
/opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/SelectChannelEndPoint.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ByteBufferPool.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ssl/ALPNProcessor.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/AbstractConnection.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ArrayByteBufferPool.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/EofException.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/EndPoint.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ChannelEndPoint.java
*
/opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/NetworkTrafficListener.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
```

```

jar/org/eclipse/jetty/io/NetworkTrafficSelectChannelEndPoint.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/Connection.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ByteArrayEndPoint.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/MappedByteBufferPool.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ssl/SslConnection.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/LeakTrackingByteBufferPool.java
*
/opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/NegotiatingClientConnection.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/WriteFlusher.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ssl/package-info.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/SelectorManager.java
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-
jar/org/eclipse/jetty/io/ManagedSelector.java
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```
* /opt/cola/permits/1643100986_1681941549.4290829/0/jetty-io-9-3-25-v20180904-sources-1-jar/about.html
```

1.772 jsr305 3.0.2

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* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javax/annotation/concurrent/NotThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javax/annotation/concurrent/GuardedBy.java

1.773 xml-apis 1.4.01

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