

# JavaRedux - API

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# Chapter 1

## Package java.lang

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---

## 1.1 Interfaces

### 1.1.1 INTERFACE Cloneable

---

#### DECLARATION

---

```
public interface Cloneable
```

### 1.1.2 INTERFACE Comparable

---

#### DECLARATION

---

```
public interface Comparable
```

#### METHODS

---

- *compareTo*  
`public int compareTo( java.lang.Object arg0 )`

### 1.1.3 INTERFACE Iterable

---

#### DECLARATION

---

```
public interface Iterable
```

#### METHODS

---

- *iterator*  
`public Iterator iterator( )`

## 1.2 Classes

### 1.2.1 CLASS ArithmeticException

---

#### DECLARATION

---

```
public class ArithmeticException  
extends java.lang.RuntimeException
```

---

CONSTRUCTORS

---

- *ArithmeticException*  
public **ArithmeticException**( )
- *ArithmeticException*  
public **ArithmeticException**( java.lang.String arg0 )

---

METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

---

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

---

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable **fillInStackTrace**( )
- *getCause*  
public Throwable **getCause**( )
- *getLocalizedMessage*  
public String **getLocalizedMessage**( )
- *getMessage*  
public String **getMessage**( )
- *initCause*  
public Throwable **initCause**( java.lang.Throwable arg0 )
- *printStackTrace*  
public void **printStackTrace**( )
- *toString*  
public String **toString**( )

---

## 1.2.2 CLASS *ArrayIndexOutOfBoundsException*

---

---

DECLARATION

---

<pre>public class ArrayIndexOutOfBoundsException <b>extends</b> java.lang.IndexOutOfBoundsException</pre>
---

---

CONSTRUCTORS

---

- *ArrayIndexOutOfBoundsException*  
public **ArrayIndexOutOfBoundsException**( )
- *ArrayIndexOutOfBoundsException*  
public **ArrayIndexOutOfBoundsException**( int   arg0 )
- *ArrayIndexOutOfBoundsException*  
public **ArrayIndexOutOfBoundsException**( java.lang.String   arg0 )

---

METHODS INHERITED FROM CLASS java.lang.IndexOutOfBoundsException

---

( in 1.2.12, page 15)

---

METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

---

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

---

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public **Throwable fillInStackTrace**( )
- *getCause*  
public **Throwable getCause**( )
- *getLocalizedMessage*  
public **String getLocalizedMessage**( )
- *getMessage*  
public **String getMessage**( )
- *initCause*  
public **Throwable initCause**( java.lang.Throwable   arg0 )
- *printStackTrace*  
public **void printStackTrace**( )
- *toString*  
public **String toString**( )

---

### 1.2.3 CLASS *ArrayStoreException*

---



## DECLARATION

---

```
public class ArrayStoreException
extends java.lang.RuntimeException
```

## CONSTRUCTORS

- *ArrayStoreException*  
public **ArrayStoreException**( )
- *ArrayStoreException*  
public **ArrayStoreException**( java.lang.String arg0 )

## METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

## METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

## METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable **fillInStackTrace**( )
- *getCause*  
public Throwable **getCause**( )
- *getLocalizedMessage*  
public String **getLocalizedMessage**( )
- *getMessage*  
public String **getMessage**( )
- *initCause*  
public Throwable **initCause**( java.lang.Throwable arg0 )
- *printStackTrace*  
public void **printStackTrace**( )
- *toString*  
public String **toString**( )

## 1.2.4 CLASS Class

## DECLARATION

---

```
public final class Class
extends java.lang.Object
```

CONSTRUCTORS

---

- *Class*  
public **Class**( )

**1.2.5 CLASS ClassCastException**

---

DECLARATION

---

```
public class ClassCastException
extends java.lang.RuntimeException
```

CONSTRUCTORS

---

- *ClassCastException*  
public **ClassCastException**( )
- *ClassCastException*  
public **ClassCastException**( java.lang.String arg0 )

METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public **Throwable fillInStackTrace**( )
- *getCause*  
public **Throwable getCause**( )
- *getLocalizedMessage*  
public **String getLocalizedMessage**( )
- *getMessage*  
public **String getMessage**( )
- *initCause*  
public **Throwable initCause**( java.lang.Throwable arg0 )
- *printStackTrace*  
public **void printStackTrace**( )
- *toString*

### 1.2.6 CLASS CloneNotSupportedException

---

#### DECLARATION

---

```
public class CloneNotSupportedException
extends java.lang.Exception
```

#### CONSTRUCTORS

---

- *CloneNotSupportedException*  
public CloneNotSupportedException( )
- *CloneNotSupportedException*  
public CloneNotSupportedException( java.lang.String arg0 )

#### METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

#### METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

### 1.2.7 CLASS Enum

---

#### DECLARATION

---

```
public abstract class Enum
extends java.lang.Object
implements Comparable, java.io.Serializable
```

CONSTRUCTORS

---

- *Enum*  
`protected Enum( java.lang.String arg0, int arg1 )`

METHODS

---

- *clone*  
`protected final Object clone( )`
- *compareTo*  
`public final int compareTo( java.lang.Enum arg0 )`
- *compareTo*  
`public int compareTo( java.lang.Object arg0 )`
- *equals*  
`public final boolean equals( java.lang.Object arg0 )`
- *finalize*  
`protected final void finalize( )`
- *hashCode*  
`public final int hashCode( )`
- *name*  
`public final String name( )`
- *ordinal*  
`public final int ordinal( )`
- *toString*  
`public String toString( )`

**1.2.8 CLASS Error**

---

DECLARATION

---

```
public class Error
extends java.lang.Throwable
```

CONSTRUCTORS

---

- *Error*  
`public Error( )`
- *Error*  
`public Error( java.lang.String arg0 )`
- *Error*  
`public Error( java.lang.String arg0, java.lang.Throwable arg1 )`
- *Error*

---

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

### 1.2.9 CLASS Exception

---

---

DECLARATION

---

<pre>public class Exception <b>extends</b> java.lang.Throwable</pre>
--

---

CONSTRUCTORS

---

- *Exception*  
public Exception( )
- *Exception*  
public Exception( java.lang.String arg0 )
- *Exception*  
public Exception( java.lang.String arg0, java.lang.Throwable arg1 )
- *Exception*  
public Exception( java.lang.Throwable arg0 )

---

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )

- *getLocalizedMessage*  
public String **getLocalizedMessage**( )
- *getMessage*  
public String **getMessage**( )
- *initCause*  
public Throwable **initCause**( java.lang.Throwable arg0 )
- *printStackTrace*  
public void **printStackTrace**( )
- *toString*  
public String **toString**( )

### 1.2.10 CLASS *ExceptionInInitializerError*

---

#### DECLARATION

---

```
public class ExceptionInInitializerError
extends java.lang.LinkageError
```

#### CONSTRUCTORS

---

- *ExceptionInInitializerError*  
public **ExceptionInInitializerError**( )
- *ExceptionInInitializerError*  
public **ExceptionInInitializerError**( java.lang.String arg0 )
- *ExceptionInInitializerError*  
public **ExceptionInInitializerError**( java.lang.Throwable arg0 )

#### METHODS

---

- *getCause*  
public Throwable **getCause**( )
- *getException*  
public Throwable **getException**( )

#### METHODS INHERITED FROM CLASS java.lang.LinkageError

---

( in 1.2.14, page 17)

#### METHODS INHERITED FROM CLASS java.lang.Error

---

( in 1.2.8, page 11)

---

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

### 1.2.11 CLASS *IllegalArgumentException*

---

#### DECLARATION

---

<pre>public class IllegalArgumentException <b>extends</b> java.lang.RuntimeException</pre>
--

#### CONSTRUCTORS

---

- *IllegalArgumentException*  
public **IllegalArgumentException**( )
- *IllegalArgumentException*  
public **IllegalArgumentException**( java.lang.String arg0 )

---

METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

---

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

**1.2.12 CLASS IndexOutOfBoundsException**

---

DECLARATION

---

```
public class IndexOutOfBoundsException
extends java.lang.RuntimeException
```

CONSTRUCTORS

---

- *IndexOutOfBoundsException*  
public IndexOutOfBoundsException( )
- *IndexOutOfBoundsException*  
public IndexOutOfBoundsException( java.lang.String arg0 )

METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)



METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

**1.2.13 CLASS InterruptedException**

---

DECLARATION

---

```
public class InterruptedException
extends java.lang.Exception
```

CONSTRUCTORS

---

- *InterruptedException*  
public InterruptedException( )
- *InterruptedException*  
public InterruptedException( java.lang.String arg0 )

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )

- *getLocalizedMessage*  
public String **getLocalizedMessage**( )
- *getMessage*  
public String **getMessage**( )
- *initCause*  
public Throwable **initCause**( java.lang.Throwable arg0 )
- *printStackTrace*  
public void **printStackTrace**( )
- *toString*  
public String **toString**( )

### 1.2.14 CLASS LinkageError

---

#### DECLARATION

---

```
public class LinkageError
extends java.lang.Error
```

#### CONSTRUCTORS

---

- *LinkageError*  
public **LinkageError**( )
- *LinkageError*  
public **LinkageError**( java.lang.String arg0 )

#### METHODS INHERITED FROM CLASS java.lang.Error

---

( in 1.2.8, page 11)

#### METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable **fillInStackTrace**( )
- *getCause*  
public Throwable **getCause**( )
- *getLocalizedMessage*  
public String **getLocalizedMessage**( )
- *getMessage*  
public String **getMessage**( )
- *initCause*  
public Throwable **initCause**( java.lang.Throwable arg0 )
- *printStackTrace*  
public void **printStackTrace**( )
- *toString*

### 1.2.15 CLASS NegativeArraySizeException

---

#### DECLARATION

---

```
public class NegativeArraySizeException
extends java.lang.RuntimeException
```

#### CONSTRUCTORS

---

- *NegativeArraySizeException*  
public NegativeArraySizeException( )
- *NegativeArraySizeException*  
public NegativeArraySizeException( java.lang.String arg0 )

#### METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

#### METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

#### METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

### 1.2.16 CLASS NoClassDefFoundError

---

## DECLARATION

---

```
public class NoClassDefFoundError
extends java.lang.LinkageError
```

---

## CONSTRUCTORS

- 
- *NoClassDefFoundError*  
public NoClassDefFoundError( )
  - *NoClassDefFoundError*  
public NoClassDefFoundError( java.lang.String arg0 )

## METHODS INHERITED FROM CLASS java.lang.LinkageError

---

( in 1.2.14, page 17)

## METHODS INHERITED FROM CLASS java.lang.Error

---

( in 1.2.8, page 11)

## METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

1.2.17 CLASS *NullPointerException*

## DECLARATION

---

```
public class NullPointerException
extends java.lang.RuntimeException
```

---

---

CONSTRUCTORS

---

- *NullPointerException*  
public NullPointerException( )
- *NullPointerException*  
public NullPointerException( java.lang.String arg0 )

---

METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

---

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

---

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

---

1.2.18 CLASS NumberFormatException

---

---

DECLARATION

---

<pre>public class NumberFormatException <b>extends</b> java.lang.RuntimeException</pre>
---

---

## CONSTRUCTORS

- *NumberFormatException*

public **NumberFormatException**( )

- *NumberFormatException*

public **NumberFormatException**( java.lang.String arg0 )

## METHODS INHERITED FROM CLASS java.lang.RuntimeException

---

( in 1.2.20, page 22)

## METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

## METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*

public **Throwable fillInStackTrace**( )

- *getCause*

public **Throwable getCause**( )

- *getLocalizedMessage*

public **String getLocalizedMessage**( )

- *getMessage*

public **String getMessage**( )

- *initCause*

public **Throwable initCause**( java.lang.Throwable arg0 )

- *printStackTrace*

public **void printStackTrace**( )

- *toString*

public **String toString**( )

## 1.2.19 CLASS Object

---

### DECLARATION

---

public class Object
---------------------

---

### CONSTRUCTORS

- *Object*

METHODS

---

- *clone*  
protected Object clone( )
- *equals*  
public boolean equals( java.lang.Object arg0 )
- *finalize*  
protected void finalize( )
- *hashCode*  
public int hashCode( )
- *notify*  
public final void notify( )
- *notifyAll*  
public final void notifyAll( )
- *toString*  
public String toString( )
- *wait*  
public final void wait( )
- *wait*  
public final void wait( long arg0 )
- *wait*  
public final void wait( long arg0, int arg1 )

## 1.2.20 CLASS RuntimeException

---

DECLARATION

---

<pre>public class RuntimeException <b>extends</b> java.lang.Exception</pre>
---

CONSTRUCTORS

---

- *RuntimeException*  
public RuntimeException( )
- *RuntimeException*  
public RuntimeException( java.lang.String arg0 )
- *RuntimeException*  
public RuntimeException( java.lang.String arg0, java.lang.Throwable arg1 )
- *RuntimeException*

METHODS INHERITED FROM CLASS java.lang.Exception

---

( in 1.2.9, page 12)

METHODS INHERITED FROM CLASS java.lang.Throwable

---

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

## 1.2.21 CLASS String

---

DECLARATION

---

```
public final class String
extends java.lang.Object
implements java.io.Serializable, Comparable
```

CONSTRUCTORS

---

- *String*  
public String( )
- *String*  
public String( byte [] arg0 )
- *String*  
public String( byte [] arg0, int arg1 )
- *String*  
public String( byte [] arg0, int arg1, int arg2 )
- *String*  
public String( byte [] arg0, int arg1, int arg2, int arg3 )



- *String*  
public String( char [] arg0 )
- *String*  
public String( char [] arg0, int arg1, int arg2 )
- *String*  
public String( int [] arg0, int arg1, int arg2 )
- *String*  
public String( java.lang.String arg0 )

## METHODS

---

- *charAt*  
public char charAt( int arg0 )
- *codePointAt*  
public int codePointAt( int arg0 )
- *codePointBefore*  
public int codePointBefore( int arg0 )
- *codePointCount*  
public int codePointCount( int arg0, int arg1 )
- *compareTo*  
public int compareTo( java.lang.Object arg0 )
- *compareTo*  
public int compareTo( java.lang.String arg0 )
- *compareToIgnoreCase*  
public int compareToIgnoreCase( java.lang.String arg0 )
- *concat*  
public String concat( java.lang.String arg0 )
- *copyValueOf*  
public static String copyValueOf( char [] arg0 )
- *copyValueOf*  
public static String copyValueOf( char [] arg0, int arg1, int arg2 )
- *endsWith*  
public boolean endsWith( java.lang.String arg0 )
- *equals*  
public boolean equals( java.lang.Object arg0 )
- *equalsIgnoreCase*  
public boolean equalsIgnoreCase( java.lang.String arg0 )
- *format*  
public static String format( java.lang.String arg0, java.lang.Object []  
arg1 )

- *getBytes*  
public byte getBytes( )
- *getBytes*  
public void getBytes( int arg0, int arg1, byte [] arg2, int arg3 )
- *getChars*  
public void getChars( int arg0, int arg1, char [] arg2, int arg3 )
- *hashCode*  
public int hashCode( )
- *indexOf*  
public int indexOf( int arg0 )
- *indexOf*  
public int indexOf( int arg0, int arg1 )
- *indexOf*  
public int indexOf( java.lang.String arg0 )
- *indexOf*  
public int indexOf( java.lang.String arg0, int arg1 )
- *intern*  
public String intern( )
- *isEmpty*  
public boolean isEmpty( )
- *lastIndexOf*  
public int lastIndexOf( int arg0 )
- *lastIndexOf*  
public int lastIndexOf( int arg0, int arg1 )
- *lastIndexOf*  
public int lastIndexOf( java.lang.String arg0 )
- *lastIndexOf*  
public int lastIndexOf( java.lang.String arg0, int arg1 )
- *length*  
public int length( )
- *matches*  
public boolean matches( java.lang.String arg0 )
- *offsetByCodePoints*  
public int offsetByCodePoints( int arg0, int arg1 )
- *regionMatches*  
public boolean regionMatches( boolean arg0, int arg1, java.lang.String arg2, int arg3, int arg4 )
- *regionMatches*  
public boolean regionMatches( int arg0, java.lang.String arg1, int arg2,

- *replace*  
public String replace( char arg0, char arg1 )
- *replaceAll*  
public String replaceAll( java.lang.String arg0, java.lang.String arg1 )
- *replaceFirst*  
public String replaceFirst( java.lang.String arg0, java.lang.String arg1 )
- *split*  
public String split( java.lang.String arg0 )
- *split*  
public String split( java.lang.String arg0, int arg1 )
- *startsWith*  
public boolean startsWith( java.lang.String arg0 )
- *startsWith*  
public boolean startsWith( java.lang.String arg0, int arg1 )
- *substring*  
public String substring( int arg0 )
- *substring*  
public String substring( int arg0, int arg1 )
- *toArray*  
public char[] toArray( )
- *toLowerCase*  
public String toLowerCase( )
- *toString*  
public String toString( )
- *toUpperCase*  
public String toUpperCase( )
- *trim*  
public String trim( )
- *valueOf*  
public static String valueOf( boolean arg0 )
- *valueOf*  
public static String valueOf( char arg0 )
- *valueOf*  
public static String valueOf( char [] arg0 )
- *valueOf*  
public static String valueOf( char [] arg0, int arg1, int arg2 )
- *valueOf*  
public static String valueOf( double arg0 )
- *valueOf*

- *valueOf*  
public static String valueOf( int arg0 )
- *valueOf*  
public static String valueOf( long arg0 )
- *valueOf*  
public static String valueOf( java.lang.Object arg0 )

### 1.2.22 CLASS StringBuffer

---

#### DECLARATION

---

```
public class StringBuffer
extends java.lang.Object
implements java.io.Serializable
```

#### CONSTRUCTORS

---

- *StringBuffer*  
public StringBuffer( )
- *StringBuffer*  
public StringBuffer( int n )
- *StringBuffer*  
public StringBuffer( java.lang.String s )

#### METHODS

---

- *append*  
public StringBuffer append( boolean b )
- *append*  
public StringBuffer append( char c )
- *append*  
public StringBuffer append( int i )
- *append*  
public StringBuffer append( long l )
- *append*  
public StringBuffer append( java.lang.Object obj )
- *append*  
public StringBuffer append( java.lang.StringBuffer sb )
- *charAt*  
public char charAt( int index )
- *length*

### 1.2.23 CLASS Throwable

---

#### DECLARATION

---

```
public class Throwable
extends java.lang.Object
implements java.io.Serializable
```

#### CONSTRUCTORS

---

- *Throwable*  
public Throwable( )
- *Throwable*  
public Throwable( java.lang.String arg0 )
- *Throwable*  
public Throwable( java.lang.String arg0, java.lang.Throwable arg1 )
- *Throwable*  
public Throwable( java.lang.Throwable arg0 )

#### METHODS

---

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*  
public String getLocalizedMessage( )
- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )

## Chapter 2

# Package java.io

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## 2.1 Interfaces

### 2.1.1 INTERFACE Serializable

---

#### DECLARATION

public interface Serializable
-------------------------------

## 2.2 Classes

### 2.2.1 CLASS IOException

---

#### DECLARATION

public class IOException <b>extends</b> java.lang.Exception
--

---

#### CONSTRUCTORS

- *IOException*  
public IOException( )
- *IOException*  
public IOException( java.lang.String arg0 )
- *IOException*  
public IOException( java.lang.String arg0, java.lang.Throwable arg1 )
- *IOException*  
public IOException( java.lang.Throwable arg0 )

---

#### METHODS INHERITED FROM CLASS java.lang.Exception

( in 1.2.9, page 12)

---

#### METHODS INHERITED FROM CLASS java.lang.Throwable

( in 1.2.23, page 28)

- *fillInStackTrace*  
public Throwable fillInStackTrace( )
- *getCause*  
public Throwable getCause( )
- *getLocalizedMessage*

- *getMessage*  
public String getMessage( )
- *initCause*  
public Throwable initCause( java.lang.Throwable arg0 )
- *printStackTrace*  
public void printStackTrace( )
- *toString*  
public String toString( )



## Chapter 3

# Package java.util

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<hr/>	

## 3.1 Interfaces

### 3.1.1 INTERFACE Collection

---

#### DECLARATION

---

<pre>public interface Collection <b>implements</b> java.lang.Iterable</pre>
---

#### METHODS

---

- *add*  
public boolean add( java.lang.Object arg0 )
- *addAll*  
public boolean addAll( java.util.Collection arg0 )
- *clear*  
public void clear( )
- *contains*  
public boolean contains( java.lang.Object arg0 )
- *containsAll*  
public boolean containsAll( java.util.Collection arg0 )
- *equals*  
public boolean equals( java.lang.Object arg0 )
- *hashCode*  
public int hashCode( )
- *isEmpty*  
public boolean isEmpty( )
- *iterator*  
public Iterator iterator( )
- *remove*  
public boolean remove( java.lang.Object arg0 )
- *removeAll*  
public boolean removeAll( java.util.Collection arg0 )
- *retainAll*  
public boolean retainAll( java.util.Collection arg0 )
- *size*  
public int size( )
- *toArray*  
public Object toArray( )
- *toArray*

### 3.1.2 INTERFACE **Iterator**

---

#### DECLARATION

---

public interface Iterator
---------------------------

#### METHODS

---

- *hasNext*  
public boolean hasNext( )
- *next*  
public Object next( )
- *remove*  
public void remove( )

### 3.1.3 INTERFACE **List**

---

#### DECLARATION

---

public interface List <b>implements</b> Collection
---

#### METHODS

---

- *add*  
public void add( int arg0, java.lang.Object arg1 )
- *add*  
public boolean add( java.lang.Object arg0 )
- *addAll*  
public boolean addAll( java.util.Collection arg0 )
- *addAll*  
public boolean addAll( int arg0, java.util.Collection arg1 )
- *clear*  
public void clear( )
- *contains*  
public boolean contains( java.lang.Object arg0 )
- *containsAll*  
public boolean containsAll( java.util.Collection arg0 )

- *equals*  
public boolean equals( java.lang.Object arg0 )
- *get*  
public Object get( int arg0 )
- *hashCode*  
public int hashCode( )
- *indexOf*  
public int indexOf( java.lang.Object arg0 )
- *isEmpty*  
public boolean isEmpty( )
- *iterator*  
public Iterator iterator( )
- *lastIndexOf*  
public int lastIndexOf( java.lang.Object arg0 )
- *listIterator*  
public ListIterator listIterator( )
- *listIterator*  
public ListIterator listIterator( int arg0 )
- *remove*  
public Object remove( int arg0 )
- *remove*  
public boolean remove( java.lang.Object arg0 )
- *removeAll*  
public boolean removeAll( java.util.Collection arg0 )
- *retainAll*  
public boolean retainAll( java.util.Collection arg0 )
- *set*  
public Object set( int arg0, java.lang.Object arg1 )
- *size*  
public int size( )
- *subList*  
public List subList( int arg0, int arg1 )
- *toArray*  
public Object toArray( )
- *toArray*  
public Object toArray( java.lang.Object [] arg0 )

### 3.1.4 INTERFACE **ListIterator**

---

## DECLARATION

---

<pre>public interface ListIterator <b>implements</b> Iterator</pre>
---

## METHODS

- 
- *add*  
public void **add**( java.lang.Object arg0 )
  - *hasNext*  
public boolean **hasNext**( )
  - *hasPrevious*  
public boolean **hasPrevious**( )
  - *next*  
public Object **next**( )
  - *nextIndex*  
public int **nextIndex**( )
  - *previous*  
public Object **previous**( )
  - *previousIndex*  
public int **previousIndex**( )
  - *remove*  
public void **remove**( )
  - *set*  
public void **set**( java.lang.Object arg0 )

### 3.1.5 INTERFACE Map

---

## DECLARATION

---

<pre>public interface Map</pre>
---------------------------------

## METHODS

- 
- *clear*  
public void **clear**( )
  - *containsKey*  
public boolean **containsKey**( java.lang.Object arg0 )

- *containsValue*  
public boolean containsValue( java.lang.Object arg0 )
- *entrySet*  
public Set entrySet( )
- *equals*  
public boolean equals( java.lang.Object arg0 )
- *get*  
public Object get( java.lang.Object arg0 )
- *hashCode*  
public int hashCode( )
- *isEmpty*  
public boolean isEmpty( )
- *keySet*  
public Set keySet( )
- *put*  
public Object put( java.lang.Object arg0, java.lang.Object arg1 )
- *putAll*  
public void putAll( java.util.Map arg0 )
- *remove*  
public Object remove( java.lang.Object arg0 )
- *size*  
public int size( )
- *values*  
public Collection values( )

### 3.1.6 INTERFACE Set

---

#### DECLARATION

---

public interface Set <b>implements</b> Collection
--

#### METHODS

---

- *add*  
public boolean add( java.lang.Object arg0 )
- *addAll*  
public boolean addAll( java.util.Collection arg0 )
- *clear*

- *contains*  
public boolean contains( java.lang.Object arg0 )
- *containsAll*  
public boolean containsAll( java.util.Collection arg0 )
- *equals*  
public boolean equals( java.lang.Object arg0 )
- *hashCode*  
public int hashCode( )
- *isEmpty*  
public boolean isEmpty( )
- *iterator*  
public Iterator iterator( )
- *remove*  
public boolean remove( java.lang.Object arg0 )
- *removeAll*  
public boolean removeAll( java.util.Collection arg0 )
- *retainAll*  
public boolean retainAll( java.util.Collection arg0 )
- *size*  
public int size( )
- *toArray*  
public Object toArray( )
- *toArray*  
public Object toArray( java.lang.Object [] arg0 )