
Class java.lang.Long

```
java.lang.Object
   |
   +----java.lang.Number
           |
           +----java.lang.Long
```

---

public final class **Long**
extends Number

The Long class provides an object wrapper for Long data values and serves as a place for long–oriented operations. A wrapper is useful because most of Java's utility classes require the use of objects. Since longs are not objects in Java, they need to be "wrapped" in a Long instance.

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Variable Index

o **MAX_VALUE**
The maximum value a Long can have.
o **MIN_VALUE**
The minimum value a Long can have.

Constructor Index

o **Long**(long)
Constructs a Long object initialized to the specified value.
o **Long**(String)
Constructs a Long object initialized to the value specified by the String parameter.

Method Index

Variables

- **MIN_VALUE**

```
public final static long MIN_VALUE
```

  The minimum value a Long can have. The lowest minimum value that a Long can have is 0x8000000000000000.

- **MAX_VALUE**

```
public final static long MAX_VALUE
```

The maximum value a Long can have. The larget maximum value that a Long can have is 0x7fffffffffffffff.

Constructors

o Long

```
public Long(long value)
```

Constructs a Long object initialized to the specified value.

Parameters:

value – the initial value of the Long

o Long

```
public Long(String s) throws NumberFormatException
```

Constructs a Long object initialized to the value specified by the String parameter. The radix is assumed to be 10.

Parameters:

s – the String to be converted to a Long

Throws: NumberFormatException

If the String does not contain a parsable long.

Methods

o toString

```
public static String toString(long i,
                              int radix)
```

Returns a new String object representing the specified long in the specified radix.

Parameters:

i – the long to be converted

radix – the radix

See Also:

MIN_RADIX, MAX_RADIX

o toString

```
public static String toString(long i)
```

Returns a new String object representing the specified integer. The radix is assumed to be 10.

Parameters:

i – the long to be converted

- **parseLong**

```
public static long parseLong(String s,
                             int radix) throws NumberFormatException
```

Assuming the specified String represents a long, returns that long's value. Throws an exception if the String cannot be parsed as a long.

Parameters:

s – the String containing the integer

radix – the radix to be used

Throws: NumberFormatException

If the String does not contain a parsable integer.

- **parseLong**

```
public static long parseLong(String s) throws NumberFormatException
```

Assuming the specified String represents a long, return that long's value. Throws an exception if the String cannot be parsed as a long. The radix is assumed to be 10.

Parameters:

s – the String containing the long

Throws: NumberFormatException

If the string does not contain a parsable long.

- **valueOf**

```
public static Long valueOf(String s,
                           int radix) throws NumberFormatException
```

Assuming the specified String represents a long, returns a new Long object initialized to that value. Throws an exception if the String cannot be parsed as a long.

Parameters:

s – the String containing the long.

radix – the radix to be used

Throws: NumberFormatException

If the String does not contain a parsable long.

- **valueOf**

```
public static Long valueOf(String s) throws NumberFormatException
```

Assuming the specified String represents a long, returns a new Long object initialized to that value. Throws an exception if the String cannot be parsed as a long. The radix is assumed to be 10.

Parameters:

s – the String containing the long

Throws: NumberFormatException

If the String does not contain a parsable long.

- **intValue**

```
public int intValue()
```

Returns the value of this Long as an int.
Overrides:
intValue in class Number

- **longValue**

```
public long longValue()
```

Returns the value of this Long as a long.
Overrides:
longValue in class Number

- **floatValue**

```
public float floatValue()
```

Returns the value of this Long as a float.
Overrides:
floatValue in class Number

- **doubleValue**

```
public double doubleValue()
```

Returns the value of this Long as a double.
Overrides:
doubleValue in class Number

- **toString**

```
public String toString()
```

Returns a String object representing this Long's value.
Overrides:
toString in class Object

- **hashCode**

```
public int hashCode()
```

Computes a hashcode for this Long.
Overrides:
hashCode in class Object

o **equals**

```
public boolean equals(Object obj)
```

Compares this object against the specified object.

Parameters:

obj – the object to compare with

Returns:

true if the objects are the same; false otherwise.

Overrides:

equals in class Object

o **getLong**

```
public static Long getLong(String nm)
```

Get a Long property. If the property does not exist, it will return 0.

Parameters:

nm – the property name

o **getLong**

```
public static Long getLong(String nm,
                           long val)
```

Get a Long property. If the property does not exist, it will return val. Deals with Hexadecimal and octal numbers.

Parameters:

nm – the String name

val – the Long value

o **getLong**

```
public static Long getLong(String nm,
                           Long val)
```

Get a Long property. If the property does not exist, it will return val. Deals with Hexadecimal and octal numbers.

Parameters:

nm – the property name

val – the Long value
