

JAVA.MATH.BIGINTEGER.COMPARETO METHOD

http://www.tutorialspoint.com/java/math/biginteger_compareto.htm

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Description

The **java.math.BigInteger.compareTo** compares this BigInteger with the specified BigInteger. This method is provided in preference to individual methods for each of the six boolean comparison operators `<`, `==`, `>`, `>=`, `!=`, `<=`.

The suggested idiom for performing these comparisons is: `x.compareTo(y <op> 0)`, where `<op>` is one of the six comparison operators.

Declaration

Following is the declaration for **java.math.BigInteger.compareTo** method

```
public int compareTo(BigInteger val)
```

Specified by

compareTo in interface **Comparable<BigInteger>**

Parameters

- **val** - BigInteger to which this BigInteger is to be compared

Return Value

This method returns -1, 0 or 1 as this BigInteger is numerically less than, equal to, or greater than val.

Exception

- NA

Example

The following example shows the usage of `math.BigInteger.compareTo` method

```
package com.tutorialspoint;

import java.math.*;

public class BigIntegerDemo {

    public static void main(String[] args) {

        // create 2 BigInteger objects
        BigInteger bi1, bi2;

        bi1 = new BigInteger("6");
        bi2 = new BigInteger("3");

        // create int object
        int res;

        // compare bi1 with bi2
        res = bi1.compareTo(bi2);

        String str1 = "Both values are equal ";
        String str2 = "First Value is greater ";
        String str3 = "Second value is greater";
    }
}
```

```
if( res == 0 )  
System.out.println( str1 );  
else if( res == 1 )  
System.out.println( str2 );  
else if( res == -1 )  
System.out.println( str3 );  
    }  
}
```

Let us compile and run the above program, this will produce the following result:

First Value is greater

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