

JAVA.MATH.BIGINTEGER.SIGNUM METHOD

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

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Description

The **java.math.BigInteger.signum** returns the signum function of this BigInteger.

Declaration

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

```
public int signum()
```

Parameters

- NA

Return Value

This method returns -1, 0 or 1 as the value of this BigInteger is negative, zero or positive.

Exception

- NA

Example

The following example shows the usage of math.BigInteger.signum method

```
package com.tutorialspoint;

import java.math.*;

public class BigIntegerDemo {

    public static void main(String[] args) {

        // create 3 BigInteger objects
        BigInteger bi1, bi2, bi3;

        // create 3 int objects
        int i1, i2, i3;

        bi1 = new BigInteger("0");
        bi2 = new BigInteger("10");
        bi3 = new BigInteger("-10");

        // assign signum results of bi1, bi2, bi3 to i1, i2, i3
        i1 = bi1.signum();
        i2 = bi2.signum();
        i3 = bi3.signum();

        String str1 = "Signum function returns " + i1 + " for " + bi1;
        String str2 = "Signum function returns " + i2 + " for " + bi2;
        String str3 = "Signum function returns " + i3 + " for " + bi3;

        // print i1, i2, i3 values
        System.out.println( str1 );
        System.out.println( str2 );
        System.out.println( str3 );
    }
}
```

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

```
Signum function returns 0 for 0  
Signum function returns 1 for 10  
Signum function returns -1 for -10
```

```
Loading [MathJax]/jax/output/HTML-CSS/jax.js
```