

JAVA.MATH.BIGINTEGER.DIVIDEANDREMAINDER METHOD

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

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Description

The **java.math.BigInteger.divideAndRemainder***BigInteger val* returns an array of two BigIntegers containing *this/val* followed by *this*.

Declaration

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

```
public BigInteger[] divideAndRemainder(BigInteger val)
```

Parameters

- **val** - value by which this BigInteger is to be divided, and the remainder computed

Return Value

This method returns an array of two BigIntegers: the quotient *this/val* is the initial element, and the remainder *this* is the final element.

Exception

- **ArithmeticException** - if val is zero

Example

The following example shows the usage of `math.BigInteger.divideAndRemainder` 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("-100");
        bi2 = new BigInteger("3");

        // BigInteger array bi stores result of bi1/bi2
        BigInteger bi[] = bi1.divideAndRemainder(bi2);

        // print quotient and remainder
        System.out.println("Division result");
        System.out.println("Quotient is " + bi[0] );
        System.out.println("Remainder is " + bi[1] );
    }
}
```

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

```
Division result
Quotient is -33
Remainder is -1
```

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