

JAVA.LANG.STRICTMATH.IEEEremainder METHOD EXAMPLE

http://www.tutorialspoint.com/java/lang/strictmath_ieeeremainder.htm

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Description

The **java.lang.StrictMath.IEEEremainder** method computes the remainder operation on two arguments.

The remainder value is mathematically equal to **f1 - f2 × n**, where **n** is the mathematical integer closest to the exact mathematical value of the quotient **f1/f2**, and if two mathematical integers are equally close to **f1/f2**, then **n** is the integer that is even.

If the remainder is zero, its sign is the same as the sign of the first argument. It includes some cases:

- If either argument is NaN, or the first argument is infinite, or the second argument is positive zero or negative zero, then the result is NaN.
- If the first argument is finite and the second argument is infinite, then the result is the same as the first argument.

Declaration

Following is the declaration for **java.lang.StrictMath.IEEEremainder** method

```
public static double IEEEremainder(double f1, double f2)
```

Parameters

- **f1** -- This is the dividend.
- **f2** -- This is the divisor.

Return Value

This method returns the remainder when **f1** is divided by **f2**.

Exception

- **NA**

Example

The following example shows the usage of **java.lang.StrictMath.IEEEremainder** method.

```
package com.tutorialspoint;

import java.lang.*;

public class StrictMathDemo {

    public static void main(String[] args) {

        double d1 = 102.20d , d2 = 32.29d;

        // returns the remainder
        double retval = StrictMath.IEEEremainder(d1, d2);
        System.out.println(" remainder = " + retval);

        /* if the first argument is finite and the second argument is infinite,
        then the result is the same as the first argument */
        d1 = 30.12d;
        d2 = (1.0)/(0.0);
        retval = StrictMath.IEEEremainder(d1, d2);
        System.out.println(" remainder = " + retval);
    }
}
```

```
}  
}
```

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

```
remainder = 5.3300000000000005  
remainder = 30.12
```

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