JAVA.LANG.MATH.NEXTAFTER METHOD

http://www.tutorialspoint.com/java/lang/math nextafter float.htm

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Description

The **java.lang.Math.nextAfter***floatstart*, *doubledirection* returns the floating-point number adjacent to the first argument in the direction of the second argument. If both arguments compare as equal a value equivalent to the second argument is returned. Special cases:

- If either argument is a NaN, then NaN is returned.
- If both arguments are signed zeros, a value equivalent to direction is returned.
- If start is Float.MIN_VALUE and direction has a value such that the result should have a smaller magnitude, then a zero with the same sign as start is returned.
- If *start* is infinite and direction has a value such that the result should have a smaller magnitude, Float.MAX_VALUE with the same sign as start is returned.
- If start is equal to Float.MAX_VALUE and direction has a value such that the result should have a larger magnitude, an infinity with same sign as start is returned.

Declaration

Following is the declaration for java.lang.Math.nextAfter method

```
public static float nextAfter(float start, double direction)
```

Parameters

- **start** -- starting floating-point value
- direction -- value indicating which of start's neighbors or start should be returned

Return Value

This method returns the floating-point number adjacent to start in the direction of direction.

Exception

NA

Example

The following example shows the usage of lang.Math.nextAfter method.

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

Math.nextAfter(98759.765f. 154.28764)=98759.76
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js