

stamp.math

## Class FloatLite6

[java.lang.Object](#)|  
+--**stamp.math.FloatLite6**

```
public class FloatLite6
extends Object
```

The FloatLite6 library can perform addition and subtraction of fixed decimal point numbers up to 6 decimal places. Comparison and equality methods are included.

FloatLite6 objects support values from -32768.999999 to 32767.999999.

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### Constructor Summary

[FloatLite6](#)(char[ ] num)

Constructor when provided the value in a char array.

[FloatLite6](#)([FloatLite6](#) other)

Constructor when provided the value of another FloatLite object.

[FloatLite6](#)([String](#) num)

Constructor when provided the value as a string.

[FloatLite6](#)([StringBuffer](#) num)

Constructor when provided the value in a StringBuffer object.

### Method Summary

int	<a href="#">absCompare</a> ( <a href="#">FloatLite6</a> other)
-----	--

Compare two FloatLite objects.

<a href="#">FloatLite6</a>	<a href="#">add</a> ( <a href="#">FloatLite6</a> other)
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Add a FloatLite object to the current one.

<a href="#">FloatLite6</a>	<a href="#">add</a> (int num)
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Add an integer to the current FloatLite object.

<a href="#">FloatLite6</a>	<a href="#">add</a> ( <a href="#">String</a> num)
----------------------------	---

Add a String object to current FloatLite object.

int	<a href="#">compare</a> ( <a href="#">FloatLite6</a> other)
-----	---

	Compare two FloatLite objects.
boolean	<a href="#">equals</a> ( <a href="#">FloatLite6</a> other) Test equality with another FloatLite object.
int	<a href="#">getInteger</a> ( ) Find the whole number portion of the object.
char[]	<a href="#">getNumerator</a> ( ) Find the numerator of the fraction element.
char	<a href="#">getNumerator</a> (int digit) Find the numerator of the fraction element.
boolean	<a href="#">getSign</a> ( ) Get the sign of the FloatLite6 object.
protected void	<a href="#">setInteger</a> (int newInt) Protected method to set the whole number portion of the object available to class and package members.
protected void	<a href="#">setNumerator</a> (char[] newInt) Protected method to set the numerator of the fraction element available to class and package members.
protected void	<a href="#">setNumerator</a> (int digit, char newval) Protected method to set the numerator element available to class and package members.
void	<a href="#">setValue</a> (char[] num) Assign a value from a char array that contains a valid float number.
void	<a href="#">setValue</a> ( <a href="#">FloatLite6</a> other) Assign a value from a FloatLite object to another FloatLite object.
void	<a href="#">setValue</a> (int num) Assign a value from an integer.
void	<a href="#">setValue</a> ( <a href="#">String</a> num) Assign a value from a string object that contains a valid float number.
void	<a href="#">setValue</a> ( <a href="#">StringBuffer</a> sbnum) Assign a value from a stringbuffer object that contains a valid float number.
<a href="#">FloatLite6</a>	<a href="#">subtract</a> ( <a href="#">FloatLite6</a> other) Subtract a FloatLite object from the current one.
<a href="#">FloatLite6</a>	<a href="#">subtract</a> (int num) Subtract an int from a FloatLite6 object.
<a href="#">FloatLite6</a>	<a href="#">subtract</a> ( <a href="#">String</a> num) Subtract a string object from a FloatLite6 object.
<a href="#">String</a>	<a href="#">toString</a> ( ) Return the current FloatLite object as a string.
void	<a href="#">zero</a> ( ) Zeros the value of the FloatLite object.

Methods inherited from class [java.lang.Object](#)

[equals](#)

## Constructor Detail

### FloatLite6

```
public FloatLite6(String num)
```

Constructor when provided the value as a string.

#### Parameters:

num - the string representation of the fixed point number

---

### FloatLite6

```
public FloatLite6(StringBuffer num)
```

Constructor when provided the value in a StringBuffer object.

#### Parameters:

num - the StringBuffer value of the fixed point number

---

### FloatLite6

```
public FloatLite6(char[] num)
```

Constructor when provided the value in a char array.

#### Parameters:

num - the char array value of the fixed point number

---

### FloatLite6

```
public FloatLite6(FloatLite6 other)
```

Constructor when provided the value of another FloatLite object.

## Method Detail

## **zero**

```
public void zero()
```

Zeros the value of the FloatLite object.

---

## **add**

```
public FloatLite6 add(FloatLite6 other)
```

Add a FloatLite object to the current one. The resulting value is held in the calling object.

---

## **add**

```
public FloatLite6 add(int num)
```

Add an integer to the current FloatLite object. The resulting value is held in the calling object.

---

## **add**

```
public FloatLite6 add(String num)
```

Add a String object to current FloatLite object. The resulting value is held in the calling object.

---

## **subtract**

```
public FloatLite6 subtract(FloatLite6 other)
```

Subtract a FloatLite object from the current one. The resulting value is held in the calling object.

---

## **subtract**

```
public FloatLite6 subtract(int num)
```

Subtract an int from a FloatLite6 object. The resulting value is held in the calling object.

---

## **subtract**

```
public FloatLite6 subtract(String num)
```

Subtract a string object from a FloatLite6 object. The resulting value is held in the calling object

---

## **equals**

```
public boolean equals(FloatLite6 other)
```

Test equality with another FloatLite object.

### **Returns:**

boolean [i]true[/i] if objects hold same value [i]false[/i] otherwise

---

## **compare**

```
public int compare(FloatLite6 other)
```

Compare two FloatLite objects.

### **Returns:**

0 if the objects are equal; -1 if other object is greater than current object; 1 if current object is greater

---

## **absCompare**

```
public int absCompare(FloatLite6 other)
```

Compare two FloatLite objects.

### **Returns:**

0 if the objects are equal; -1 if other object is greater than current object; 1 if current object is greater

---

## **setValue**

```
public void setValue(FloatLite6 other)
```

Assign a value from a FloatLite object to another FloatLite object.

---

## **setValue**

```
public void setValue(StringBuffer sbnum)
```

Assign a value from a stringbuffer object that contains a valid float number.

---

## **setValue**

```
public void setValue(String num)
```

Assign a value from a string object that contains a valid float number.

---

## **setValue**

```
public void setValue(char[] num)
```

Assign a value from a char array that contains a valid float number.

---

## **setValue**

```
public void setValue(int num)
```

Assign a value from an integer.

---

## **toString**

```
public String toString()
```

Return the current FloatLite object as a string.

---

## **getSign**

```
public boolean getSign()
```

Get the sign of the FloatLite6 object.

### **Returns:**

boolean [i]true[/i] if positive, [i]false[/i] if negative

---

## **getNumerator**

```
public char[] getNumerator()
```

Find the numerator of the fraction element.

**Returns:**

integer representation of numerator value -- denominator is always 10000

---

## **getNumerator**

```
public char getNumerator(int digit)
```

Find the numerator of the fraction element.

**Returns:**

integer representation of numerator value -- denominator is always 10000

---

## **getInteger**

```
public int getInteger()
```

Find the whole number portion of the object.

**Returns:**

integer representation of whole number value

---

## **setInteger**

```
protected void setInteger(int newInt)
```

Protected method to set the whole number portion of the object available to class and package members.

---

## **setNumerator**

```
protected void setNumerator(char[] newInt)
```

Protected method to set the numerator of the fraction element available to class and package members.

---

## **setNumerator**

```
protected void setNumerator(int digit,  
                             char newval)
```

Protected method to set the numerator element available to class and package members.

---

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