>>= means bitwise shift x to right, and assign the new value to x;

>> means bitwise shift x to right, but NOT assign the new value to x

<http://www.cafeaulait.org/course/week2/03.html>

**Java Operators**

An operator is a symbol that operates on one or more arguments to produce a result. The Hello World program is so simple it doesn't use any operators, but almost all other programs you write will.

|  |  |
| --- | --- |
| **Operator** | **Purpose** |
| + | addition of numbers, concatenation of Strings |
| += | add and assign numbers, concatenate and assign Strings |
| - | subtraction |
| -= | subtract and assign |
| \* | multiplication |
| \*= | multiply and assign |
| / | division |
| /= | divide and assign |
| % | take remainder |
| %= | take remainder and assign |
| ++ | increment by one |
| -- | decrement by one |
| > | greater than |
| >= | greater than or equal to |
| < | less than |
| <= | less than or equal to |
| ! | boolean NOT |
| != | not equal to |
| && | boolean AND |
| || | boolean OR |
| == | boolean equals |
| = | assignment |
| ~ | bitwise NOT |
| ?: | conditional |
| instanceof | type checking |
| | | bitwise OR |
| |= | bitwise OR and assign |
| ^ | bitwise XOR |
| ^= | bitwise XOR and assign |
| & | bitwise AND |
| &= | bitwise AND and assign |
| >> | shift bits right with sign extension |
| >>= | shift bits right with sign extension and assign |
| << | shift bits left |
| <<= | shift bits left and assign |
| >>> | unsigned bit shift right |
| >>>= | unsigned bit shift right and assign |