

Java Operator Precedence Table

| Operator | Description | Associativity |
|-----------------|--|---------------|
| () | method invocation | left-to-right |
| [] | array subscript | |
| . | member access/selection | |
| ++ | unary postfix increment | right-to-left |
| -- | unary postfix decrement | |
| ++ | unary prefix increment | right-to-left |
| -- | unary prefix decrement | |
| + | unary plus | |
| - | unary minus | |
| ! | unary logical negation | |
| ~ | unary bitwise complement | |
| (<i>type</i>) | unary cast | |
| new | object creation | |
| * | multiplication | left-to-right |
| / | division | |
| % | modulus (remainder) | |
| + | addition or string concatenation | left-to-right |
| - | subtraction | |
| << | left shift | left-to-right |
| >> | arithmetic/signed right shift (sign bit duplicated) | |
| >>> | logical/unsigned right shift (zero shifted in) | |
| < | less than | left-to-right |
| <= | less than or equal to (at most) | |
| > | greater than | |
| >= | greater than or equal to (at least) | |
| instanceof | type comparison | |
| == | is equal to (equality) | left-to-right |
| != | is not equal to (inequality) | |
| & | bitwise AND boolean logical AND (no short-circuiting) | left-to-right |
| ^ | bitwise exclusive OR boolean logical exclusive OR | left-to-right |
| | bitwise inclusive OR boolean logical inclusive OR (no short-circuiting) | left-to-right |
| && | logical/conditional AND (short-circuiting) | left-to-right |
| | logical/conditional OR (short-circuiting) | left-to-right |
| ?: | conditional/ternary (if-then-else) | right-to-left |
| = | assignment | right-to-left |
| += | addition assignment | |
| -= | subtraction assignment | |
| *= | multiplication assignment | |
| /= | division assignment | |
| %= | modulus/remainder assignment | |
| &= | bitwise AND assignment | |
| ^= | bitwise exclusive OR assignment | |
| = | bitwise inclusive OR assignment | |
| <<= | bitwise left shift assignment | |
| >>= | bitwise arithmetic/signed right shift assignment | |
| >>>= | bitwise logical/unsigned right shift assignment | |

from: cseweb.ucsd.edu/~ricko/CSE11