## Operators Precedence in C

Operator precedence determines the grouping of terms in an expression and decides how an expression is evaluated. Certain operators have higher precedence than others; for example, the multiplication operator has a higher precedence than the addition operator.

For example, x = 7 + 3 \* 2; here, x is assigned 13, not 20 because operator \* has a higher precedence than +, so it first gets multiplied with 3\*2 and then adds into 7.

Here, operators with the highest precedence appear at the top of the table, those with the lowest appear at the bottom. Within an expression, higher precedence operators will be evaluated first.

## **Show Examples**

Category	Operator	Associativity
Postfix	() [] -> . ++	Left to right
Unary	+ -! ~ ++ (type)* & sizeof	Right to left
Multiplicative	* / %	Left to right
Additive	+ -	Left to right
Shift	<< <i>&gt;&gt;</i>	Left to right
Relational	<<=>>=	Left to right
Equality	==!=	Left to right
Bitwise AND	&	Left to right
Bitwise XOR	۸	Left to right
Bitwise OR		Left to right

Logical AND	&&	Left to right
Logical OR		Left to right
Conditional	?:	Right to left
Assignment	= += -= *= /= %=>>= <<= &= ^=  =	Right to left
Comma	,	Left to right