

COP 3014: Spring 2022

Operator Precedence

January 21, 2022

- Operator precedence determines the order in which operators are evaluated. Operators with higher precedence are evaluated first.
- Associativity determines the order in which operators of the same precedence are processed (left to right or the other way round)
- The following table is ordered from highest to lowest precedence.

Operator Name	Associativity	Operators
Primary scope resolution	left to right	::
Primary	left to right	() [] . -> dynamic_cast typeid
Unary	right to left	++ - + - ! & * (type_name) sizeof new delete
C++ Pointer to Member	left to right	.* ->*
Multiplicative	left to right	* / %
Additive	left to right	+ -
Bitwise Shift	left to right	<< >>
Relational	left to right	< > <= >=
Equality	left to right	== !=
Bitwise AND	left to right	&
Bitwise Exclusive OR	left to right	^
Bitwise Inclusive 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	,