COP 3014: Fall 2021

Operator Precedence

August 31, 2021

- 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	,