

Precedence	Operator	Description	Associativity
1	::	Scope resolution	Left-to-right →
2	a++ a	Suffix/postfix increment and decrement	
	type() type{}	Functional cast	
	a()	Function call	
	a[]	Subscript	
	>	Member access	
3	++aa	Prefix increment and decrement	Right-to-left €
	+a -a	Unary plus and minus	
	! ~	Logical NOT and bitwise NOT	
	(type)	C-style cast	
	*a	Indirection (dereference)	
	&a	Address-of	
	sizeof	Size-of ^[note 1]	
	co_await	await-expression (c++20)	
	new new[]	Dynamic memory allocation	
	delete delete[]	Dynamic memory deallocation	
4	.* ->*	Pointer-to-member	Left-to-right →
5	a*b a/b a%b	Multiplication, division, and remainder	
6	a+b a-b	Addition and subtraction	
7	<< >>	Bitwise left shift and right shift	
8	<=>	Three-way comparison operator (since C++20)	
9	< <= > >=	For relational operators < and ≤ and > and ≥ respectively	
10	== !=	For equality operators = and ≠ respectively	
11	a&b	Bitwise AND	
12	^	Bitwise XOR (exclusive or)	
13	I	Bitwise OR (inclusive or)	
14	&&	Logical AND	
15	П	Logical OR	
16	a?b:c	Ternary conditional ^[note 2]	Right-to-left •
	throw	throw operator	
	co_yield	yield-expression (c++20)	
	=	Direct assignment (provided by default for C++ classes)	
	+= -=	Compound assignment by sum and difference	
	*= /= %=	Compound assignment by product, quotient, and remainder	
	<<= >>=	Compound assignment by bitwise left shift and right shift	
	&= ^= =	Compound assignment by bitwise AND, XOR, and OR	
17	,	Comma	Left-to-right -





