

# C operator precedence

	Operator	Description	Assoc.
1	++ --	Suffix increment and decrement	→
	()	Function call	
	[]	Array subscripting	
	.	Element selection by reference	
	->	Element selection through pointer	
2	++ --	Prefix increment and decrement	←
	+ -	Unary plus and minus	
	! ~	Logical NOT and bitwise NOT	
	( <i>type</i> )	Type cast	
	*	Dereference	
	&	Address-of	
	sizeof	Size-of	
3	* / %	Multiplication, division, and modulus	→
4	+ -	Addition and subtraction	→
5	<< >>	Bitwise left shift and right shift	
6	< <=	For relational operators < and ≤ respectively	
	> >=	For relational operators > and ≥ respectively	
7	== !=	For relational = and ≠ respectively	
8	&	Bitwise AND	
9	^	Bitwise XOR (exclusive or)	
10		Bitwise OR (inclusive or)	
11	&&	Logical AND	
12		Logical OR	
13	<i>c</i> ? <i>t</i> : <i>f</i>	Ternary conditional	←
14	=	Direct assignment	←
	+= -=	Assignment by sum and difference	
	*= /= %=	Assignment by product, quotient, and remainder	
	<<= >>=	Assignment by bitwise left shift and right shift	
	&= ^=  =	Assignment by bitwise AND, XOR, and OR	
15	,	Comma	→