

[Home](#) » [Dev](#) » [Java](#) » [Operators](#) » Operator Precedence [\[Print\]](#)

– На български

- Често допускани грешки в българския език
- Тестове по български език

– Numbers

- Numeric Base Converter
- Number To Text converter
- Numbers To Text converter
- List of numbers names
 - googolminexminex
- von Neumann integer
 - tester
 - generator

– Math

- Matrix calculator
- LU Decomposition tool
- System of linear equations solving tool
- Arabic-Roman numerals converter

– Dev

- Modifiers in Java
- Access Protection
- Modifiers in Java
- [Operator Precedence in Java](#)
- Java2HTML Converter
- Haskell stuff
- HTML2Wiki tool

Operator Precedence in Java




NOTE: Use explicit parentheses when there is even the possibility of confusion.

The operators in Java, shown in order of precedence - from highest to lowest

Priority	Operators	Operation	Associativity
1	[]	array index	left
	()	method call	
	.	member access	
2	++	pre- or postfix increment	right
	--	pre- or postfix decrement	
	+ -	unary plus, minus	
	~	bitwise NOT	
	!	boolean (logical) NOT	
	(type)	type cast	
	new	object creation	
3	* / %	multiplication, division, remainder	left
4	+ -	addition, subtraction	left
	+	string concatenation	
5	<<	signed bit shift left	left
	>>	signed bit shift right	
	>>>	unsigned bit shift right	
6	< <=	less than, less than or equal to	left
	> >=	greater than, greater than or equal to	
	instanceof	reference test	
7	==	equal to	left
	!=	not equal to	
8	&	bitwise AND	left
	&	boolean (logical) AND	

9	^	bitwise XOR	left
	^	boolean (logical) XOR	
10		bitwise OR	left
		boolean (logical) OR	
11	&&	boolean (logical) AND	left
12		boolean (logical) OR	left
13	? :	conditional	right
14	=	assignment	right
	*= /= += -= %=	combined assignment (operation and assignment)	
	<<= >>= >>>=		
	&= ^= =		

Further reading

- [Java Language Specification SE](#) :
 - [Evaluation Order](#)  ([Expressions](#) )

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