

Expressions

Programming in C

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Arithmetic Operators

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Things to remember:

- Operator precedence is still **MD/AS**, evaluated from **left to right** for operators with the same priority.

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- Operator precedence is still **MD/AS**, evaluated from **left to right** for operators with the same priority.
- When both operands are integers, the result is also an integer. Otherwise, the result is a floating-point number.
- The modulo **%** operator can have integer operands only.

Examples

1. $5 + 5 / 2 - 2 + 1 * 9 / 3$

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2. $15 \% 6 * 2.5 + 1$

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Evaluating Expressions

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Example: Given $a = 11$, $b = 2$, and $c = 5$, evaluate the following:

1. $a / b / c$
2. $(a / b) / c$
3. $a / (b / c)$

Arithmetic Operators

highest	$()$	left to right
	unary $+$, unary $-$	right to left
	$\%$, $*$, $/$	left to right
	$+$, $-$	left to right

Relational Operators

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$>$ $>=$ $<$ $<=$ $==$ \neq
equality inequality

Things to remember:

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Things to remember:

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Logical Operators

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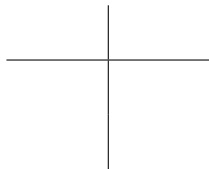
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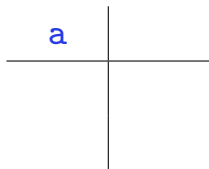
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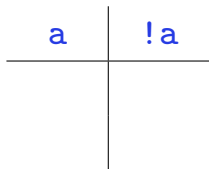
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Evaluate:

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Evaluate:

1. `!5`
2. `!(3 < 3)`

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true	false
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Evaluate:

1. `!5`
2. `!(3 < 3)`
3. `!(4 - 2 * 2)`

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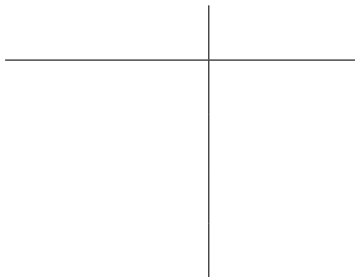
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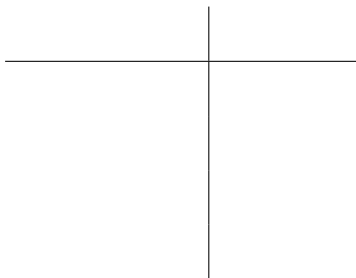
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true	true	true
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false	true	true
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Evaluate:

1. `(5 < 4) || (6 > 7)`

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3. `!(4 / 2 * 2) || (5 % 3 == 2)`

Logical Operators

highest	()	left to right
	unary +, unary - !	right to left
	%, *, /	left to right
	+, -	left to right
	>, >=, <, <=	left to right
	==, !=	left to right
	&&	left to right
		left to right

C Operator Precedence Table: https://en.cppreference.com/w/c/language/operator_precedence

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Evaluate the following.

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4. $4 * 5.0 / 8 - 10$

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4. $x = \frac{a + 3b}{2c}$

😊 Thank you! 😊