Operators

Mathmatical Symbols in C

C is able to perform basic mathematical operations on variables and values using the following symbols:

- Addition: $+$
- Subtraction: $-$
- Division: $/$
- Multiplication: $*$
- Incrementing: $++$
- Decrementing: $--$
- Modulo: $\%$

Assignment Operations in C

C can assign values to variables and perform basic mathematical operations using shorthand operators:

- Assignment: $=$
- Addition then assignment: $+=$
- Subtraction then assignment: $-=$
- Multiplication then assignment: $*=$
- Division then assignment: $/=$
- Modulo then assignment: $\%=$

Comparing values in C

C can compare two values and/or variables against each other to return true or false. The operators are as follows:

- Do both sides have the same value? $==$
- Do the two sides have different values? $!=$
- Is the left side a lower value than the right side? $<$
- Is the left side a lower or equal value to the right side? $<=$
- Is the left side a greater value than the right side? $>$
- Is the left side a greater or equal value to the right side? $>=$

Logical Operators in C

C can perform logical operations using the following operators:

- and: $\&\&$ (Are both sides true?)
- or: $\|$ (Is at least one side true?)
- not: $!$ (True becomes false and false becomes true.)