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.)