

# Operators

## Mathematical 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.)

 Save    Print    Share ▼