%=

[Compound Operators]

Description

This is a convenient shorthand to calculate the remainder when one integer is divided by another and assign it back to the variable the calculation was done on.

Syntax

x %= divisor; // equivalent to the expression x = x % divisor;

Parameters

x: variable. Allowed data types: int.  
divisor: **non zero** variable or constant. Allowed data types: int.

Example Code

int x = 7;

x %= 5; // x now contains 2

Notes and Warnings

1. The compound remainder operator does not work on floats.
2. If the **first** operand is negative, the result is negative (or zero). Therefore, the result of x %= 10 will not always be between 0 and 9 if x can be negative.