
Module

Data Types, Variables, and Constants

Lesson

Data Types, Variables, and Constants

Lecture

Integer Data Types

In this lecture, we'll discuss the various data types we use to represent integers in C#

- Integers (no fractions or decimals)
 - 0, 42, -11
- `byte`, `short`, `int`,
`long`
 - Different number of bits in memory for each type
 - What does that tell us?
- Operations are mostly as you'd expect (except for `/`)

In-Lecture Quiz

In C#, if we add 1 to an `int` variable that currently has a value of 1, the new value of the variable is

- A: 5
- B: 12
- C: 2
- D: -0

In-Lecture Quiz

In C#, if we add 1 to an `int` variable that currently has a value of 2,147,483,647, the new value of the variable is

- A: 2,147,483,648
- B: -2,147,483,648
- C: 42
- D: 2

- Recap
 - For the value types, the contents of the memory location are interpreted as the value of the variable
 - C# provides a variety of data types for representing integers