Arrays In C#

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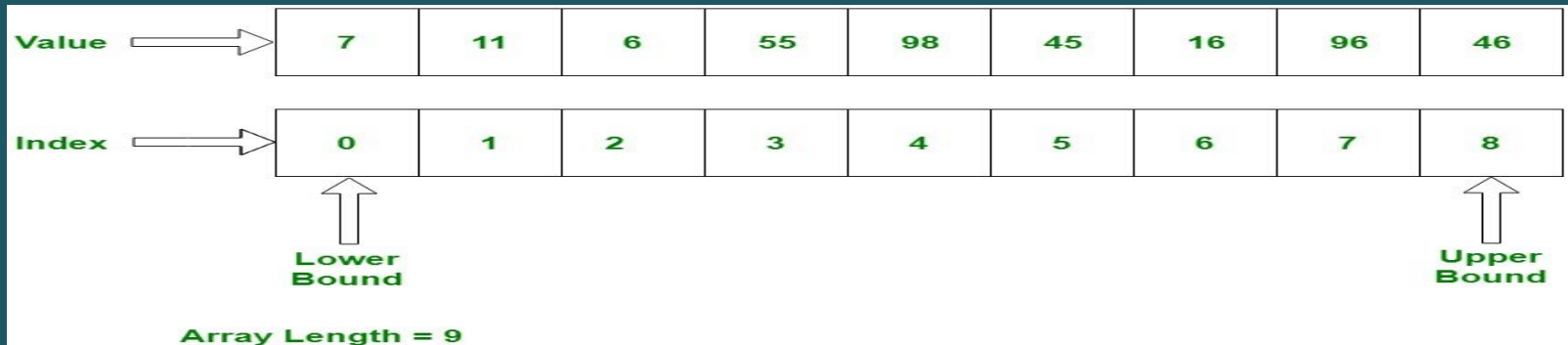
What is Array

1. Arrays are used to store multiple values in a single variable, instead of declaring separate variables for each value.To declare an array, define the variable type with square brackets:

2. In C#, an array is a data structure that allows you to store a fixed-size collection of elements of the same type. Arrays provide a convenient way to work with groups of related data items under a single variable name. Each element in an array is accessed by its numerical index, starting from 0.

Array with Example

★ The array has can contain primitive data types as well as objects of a class depending on the definition of an array. Whenever use primitives data types, the actual values have to be stored in contiguous memory locations. In the case of objects of a class, the actual objects are stored in the heap segment. The following figure shows how array stores values sequentially.
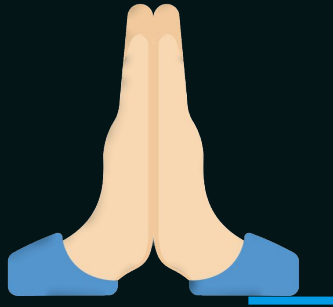
Value		7	11	6	55	98	45	16	96	46
Index		0	1	2	3	4	5	6	7	8

Lower Bound

Upper Bound

Array Length = 9

★   Array Declaration

★   < Data Type > [Size] < Name_Array >

Here, < Data Type > : It define the element type of the array. [ ] : It define the size of the array.
< Name_Array > : It is the Name of array.

int[] x; // can store int values
string[] s; // can store string values
double[] d; // can store double values

Thank You

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