Arrays

An array is a collection of collection of similar elements

* These similar elements could be % marks of 100 students or salaries of 300 employees or ages of 50 employees, etc.
* The elements MUST be similar i.e. it cannot have mixed datatypes.
* Usually the Array of characters is called a string.

## Array Declaration

Syntax: <datatype> <name of array>

Example: int marks[50]

## Accessing Elements of an Array

<Name of array> [index]

Int num[6] = {2,4,12, 5, 45, 53}

## Flexible Arrays

If we do not know the site of the array at the time of writing the program, we can receive it during execution.

An array contains 10 integers, receive the number to be searched in the array as input. Write a program to search this number in the array and display the number of times it occurs in the array.

Accept an array of 10 elements and sort the array in descending order without using a new array.