First Arrays Manipulations

<https://csci-1301.github.io/about#authors>

June 12, 2021 (09:36:00 PM)

Table of Contents

# First Array Manipulation

Write a program that

1. declares an array myArray of int of size ,
2. initializes myArray with the values , , , and ,
3. displays the content of myArray.

Now, let us write *incorrect* statements. Add the following statements one by one to your program, observe how C# reacts (that is, try to compile and execute after you add one, then remove it), and answer the following questions.

myArray = { 1, 2 ,3, 4, 5};  
Console.WriteLine(myArray[5]);  
myArray[5] = 12;  
Console.WriteLine(myArray);

* One of these statements is not “incorrect” in the sense that it won’t prevent your program from executing, but it is not doing what you would have expected: which one?
* Can you read and understand the error messages you obtained for the others?

# Second Array Manipulation

Write a program that

1. declares an array myArray of int of size ,
2. initializes myArray with the values , , , …, and ,
3. displays the content of myArray.
4. sums the values stored in myArray and displays the result.
5. computes the product of the values stored in myArray and displays the result.

# Pushing Further (Optional)

## Default values

Execute the following:

int[] ar = new int[5];  
ar[0] = 5;  
for (int i = 0; i < ar.Length; i++)  
 Console.WriteLine(ar[i]);

What can you conclude about the value of the array cells that were not assigned?