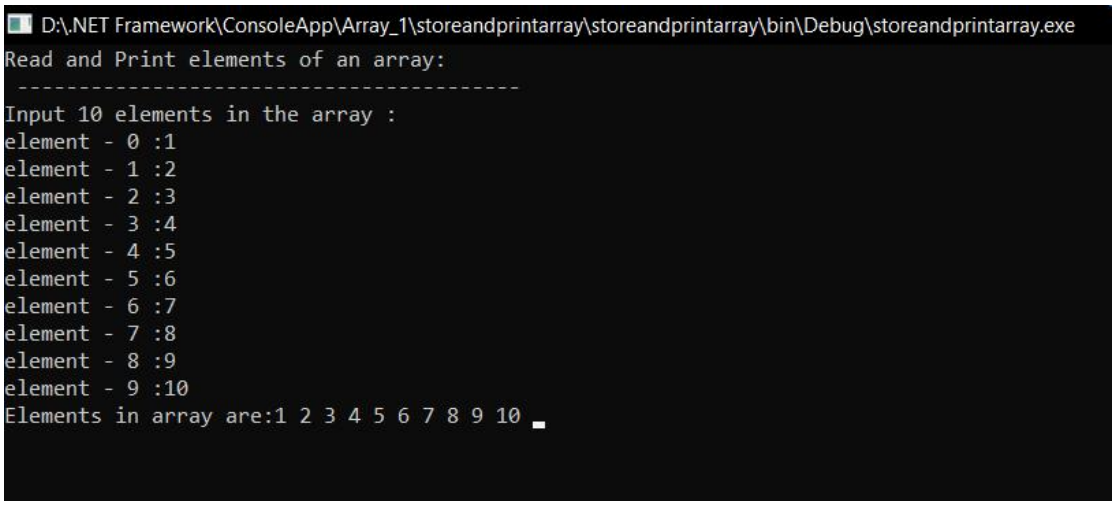
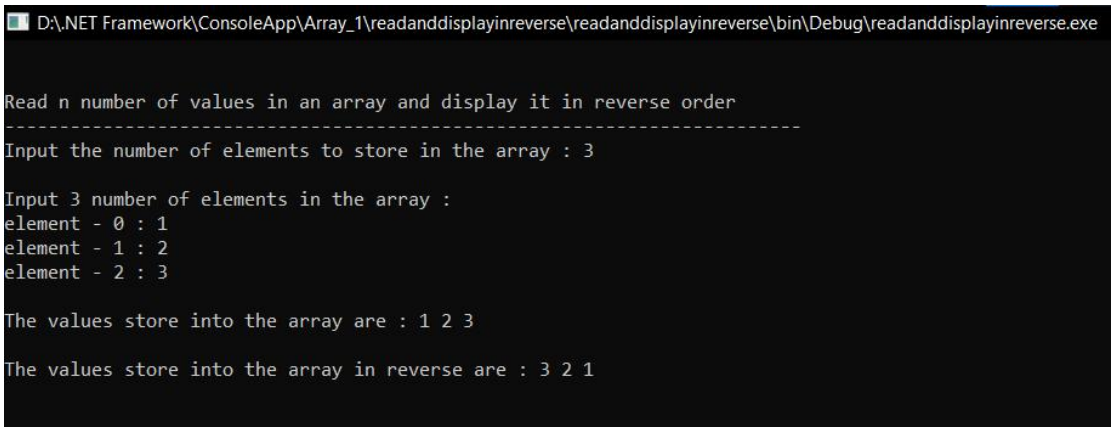
ARRAYS -1 :

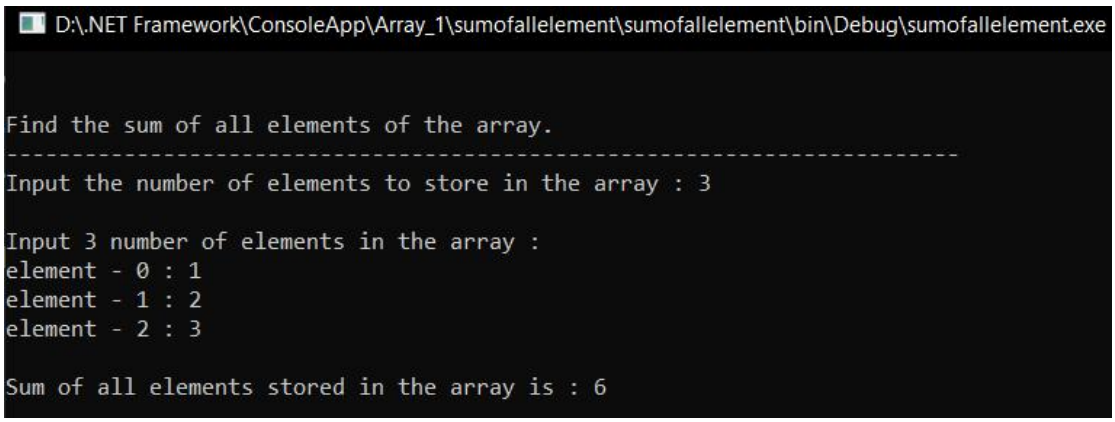
C# Sharp to store elements in an array and print it.



Write a program in C# Sharp to read n number of values in an array and display it in reverse order.



Write a program in C# Sharp to find the sum of all elements of the array.



Write a program in C# Sharp to copy the elements one array into another array.

```
D:\.NET Framework\ConsoleApp\Array_1\copyofarray\copyofarray\bin\Debug\copyofarray.exe


To copy the elements one array into another array.
------------------------------------------------------------------------
Input the number of elements to store in the array : 3

Input 3 number of elements in the array :

element - 0 : 1
element - 1 : 2
element - 2 : 3

The elements stored in the first array are :
1 2 3
The elements copied into the second array are :
1 2 3
```

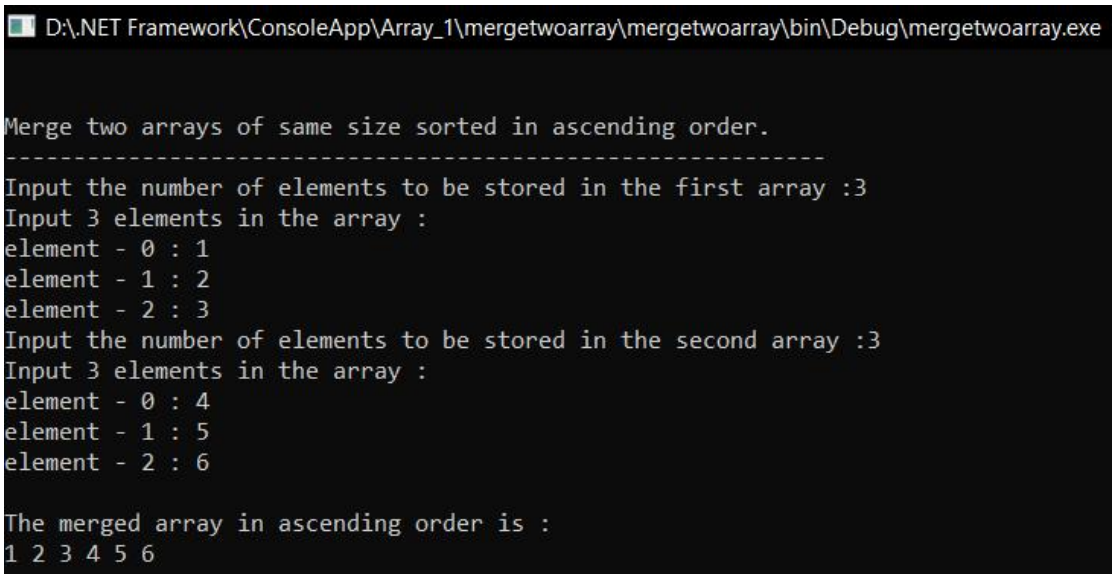
C# Sharp to count a total number of duplicate elements in an array.

```
D:\.NET Framework\ConsoleApp\Array_1\duplicatesofarray\duplicatesofarray\bin\Debug\duplicatesofarray.exe


Count total number of duplicate elements in an array:
-----------------------------------------------------
Input the number of elements to be stored in the array :4
Input 4 elements in the array :
element - 0 : 1
element - 1 : 2
element - 2 : 1
element - 3 : 2
The number of duplicate elements is: 2
```

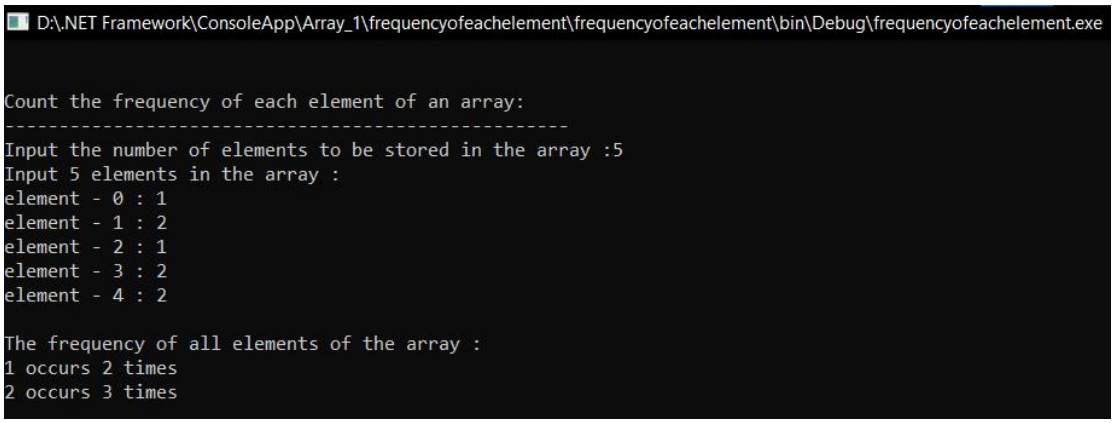
C# Sharp to print all unique elements in an array

```
D:\.NET Framework\ConsoleApp\Array_1\uniqueelementsinarray\uniqueelementsinarray\bin\Debug\uniqueelementsinarray.exe


Print all unique elements of an array:
--------------------------------------
Input the number of elements to be stored in the array :3
Input 3 elements in the array :
element - 0 : 1
element - 1 : 2
element - 2 : 2

The unique elements found in the array are :
1
```

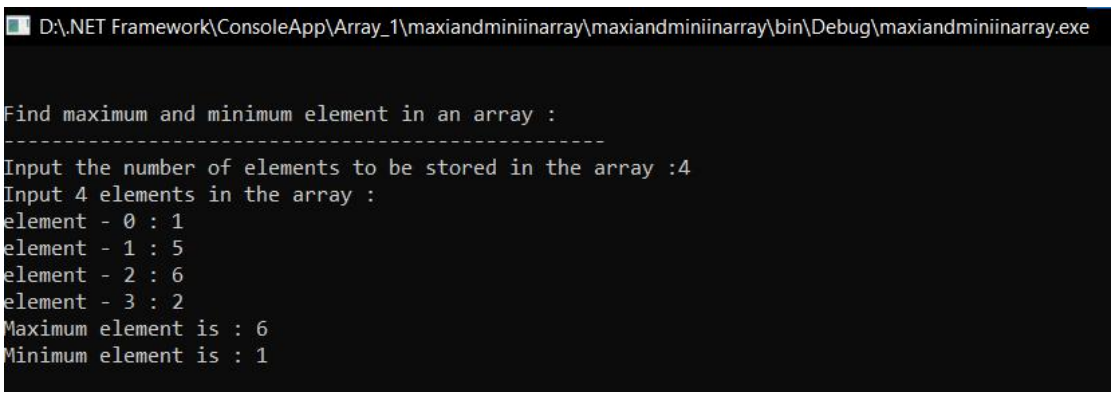
C# Sharp to merge two arrays of same size sorted in ascending order.



C# Sharp to count the frequency of each element of an array



C# Sharp to find maximum and minimum element in an array.



C# Sharp to separate odd and even integers in separate arrays

```
D:\.NET Framework\ConsoleApp\Array_1\seperateoddandeven\seperateoddandeven\bin\Debug\seperateoddandeven.exe


Separate odd and even integers in separate arrays:
-------------------------------------------------------
Input the number of elements to be stored in the array :5
Input 5 elements in the array :
element - 0 : 0
element - 1 : 1
element - 2 : 2
element - 3 : 3
element - 4 : 4

The Even elements are :
0 2 4
The Odd elements are :
1 3
```

ARRAYS - 2 :

C# Sharp for a 2D array of size 3x3 and print the matrix.

```
D:\.NET Framework\ConsoleApp\Array_2\twodarrayandprintmatrix\twodarrayandprintmatrix\bin\Debug\twodarrayandprintmatrix.exe


Read a 2D array of size 3x3 and print the matrix :
-------------------------------------------------------
Input elements in the matrix :
element - [0,0] : 1
element - [0,1] : 2
element - [0,2] : 3
element - [1,0] : 4
element - [1,1] : 5
element - [1,2] : 6
element - [2,0] : 7
element - [2,1] : 8
element - [2,2] : 9

The matrix is :

1       2       3
4       5       6
7       8       9
```

C# Sharp for addition of two Matrices of same size

```
D:\.NET Framework\ConsoleApp\Array_2\additionoftwomatrix\additionoftwomatrix\bin\Debug\additionoftwomatrix.exe


addition of two Matrices :
----------------------------------------
Input the size of the square matrix (less than 5): 2
Input elements in the first matrix :
element - [0,0] : 1
element - [0,1] : 2
element - [1,0] : 3
element - [1,1] : 4
Input elements in the second matrix :
element - [0,0] : 4
element - [0,1] : 3
element - [1,0] : 2
element - [1,1] : 1

The First matrix is :

1       2
3       4
The Second matrix is :

4       3
2       1
The Addition of two matrix is :

5       5
5       5
```

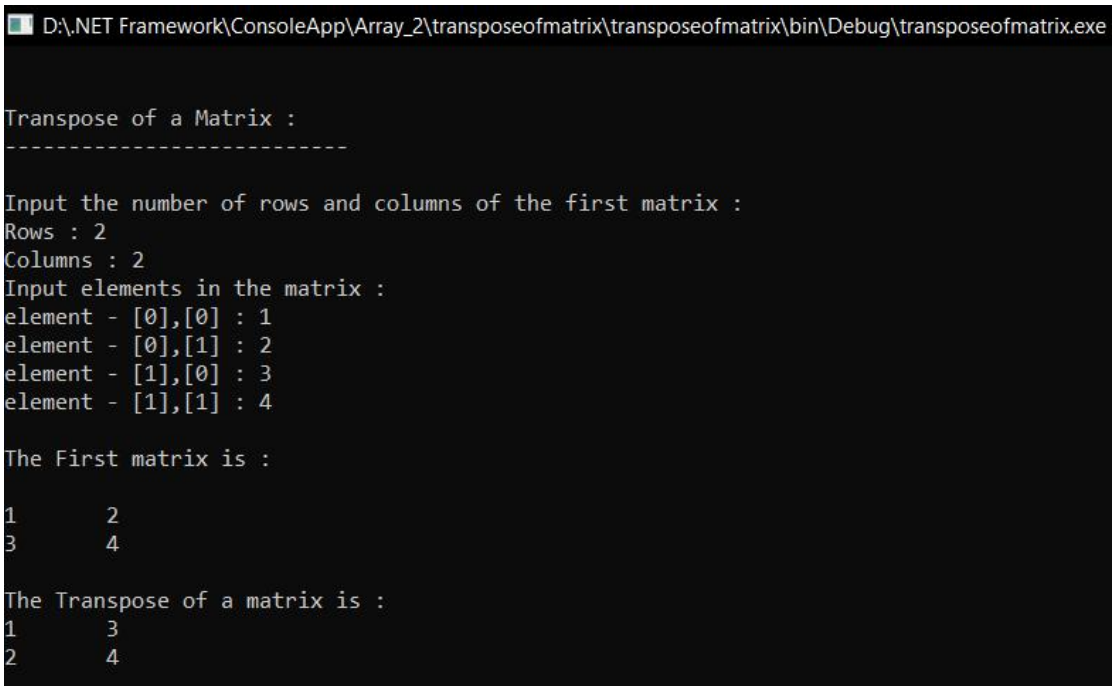
C# Sharp for subtraction of two Matrices.

```
D:\.NET Framework\ConsoleApp\Array_2\subtractionoftwomatrix\subtractionoftwomatrix\bin\Debug\subtractionoftwomatrix.exe


Subtraction of two Matrices :
-----------------------------
Input the size of the square matrix (less than 5): 2
Input elements in the first matrix :
element - [0,0] : 1
element - [0,1] : 2
element - [1,0] : 3
element - [1,1] : 4
Input elements in the second matrix :
element - [0,0] : 4
element - [0,1] : 3
element - [1,0] : 2
element - [1,1] : 1

The First matrix is :

1       2
3       4
The Second matrix is :

4       3
2       1
The Subtraction of two matrix is :

-3      -1
1       3
```

C# Sharp for multiplication of two square Matrices.

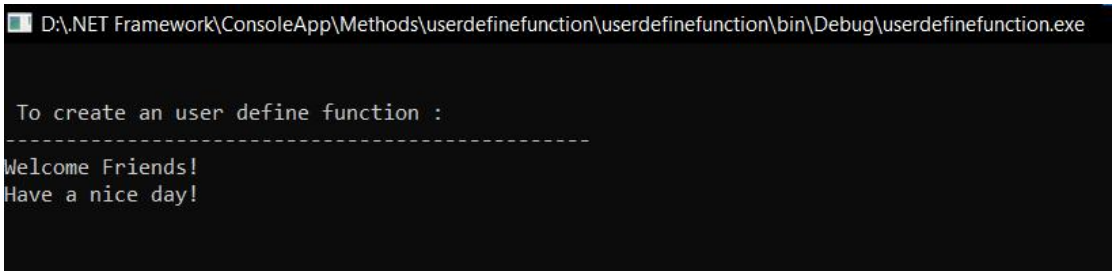
```
D:\.NET Framework\ConsoleApp\Array_2\multiplicationoftwomatrix\multiplicationoftwomatrix\bin\Debug\multiplicationoftwomatrix.exe
Columns : 2

Input the number of rows of the second matrix :
Rows : 2
Columns : 2
Input elements in the first matrix :
element - [0],[0] : 1
element - [0],[1] : 2
element - [1],[0] : 3
element - [1],[1] : 4
Input elements in the second matrix :
element - [0],[0] : 1
element - [0],[1] : 2
element - [1],[0] : 3
element - [1],[1] : 4

The First matrix is :

1       2
3       4
The Second matrix is :

1       2
3       4
The multiplication of two matrix is :

7       10
15      22
```

C# Sharp to find transpose of a given matrix.



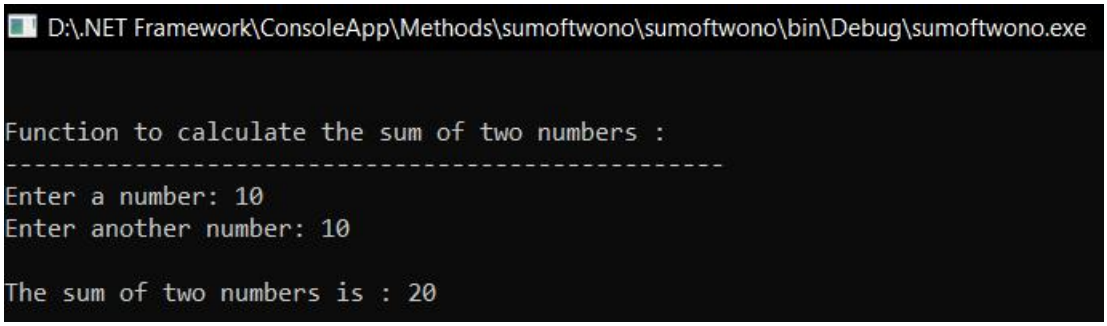
METHODS :

C# Sharp to create a user define function.

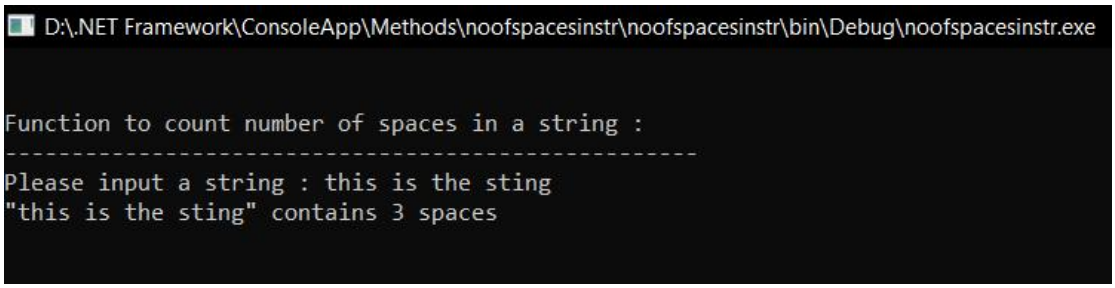


C# Sharp to create a user define function with parameters.

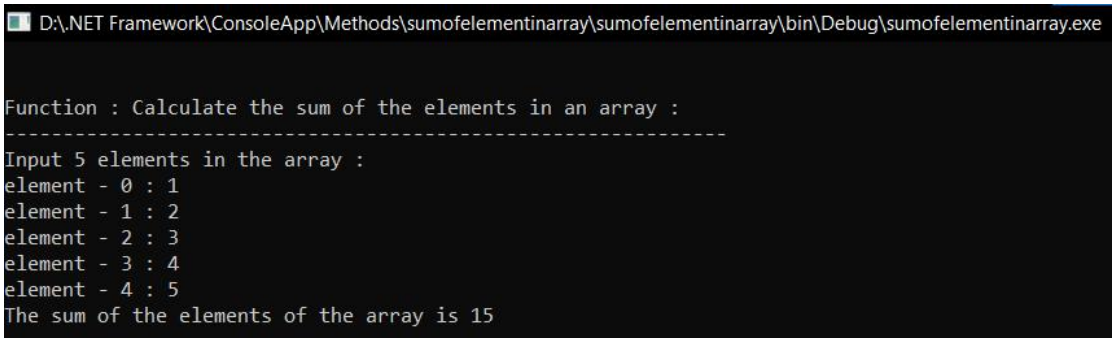
C# Sharp to create a function for the sum of two numbers.



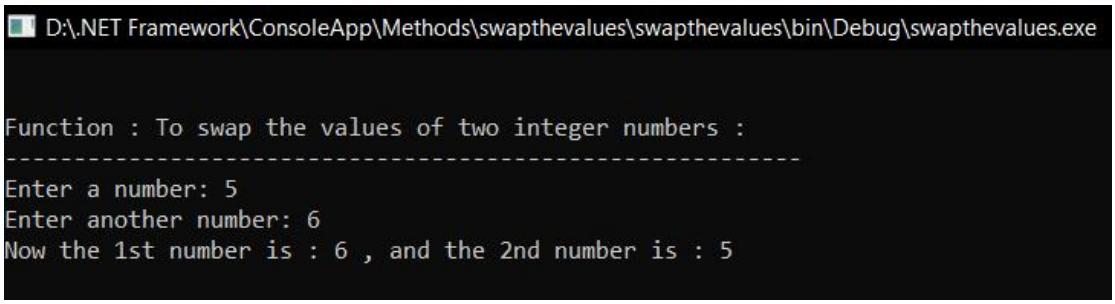
C# Sharp to create a function to input a string and count number of spaces are in the string



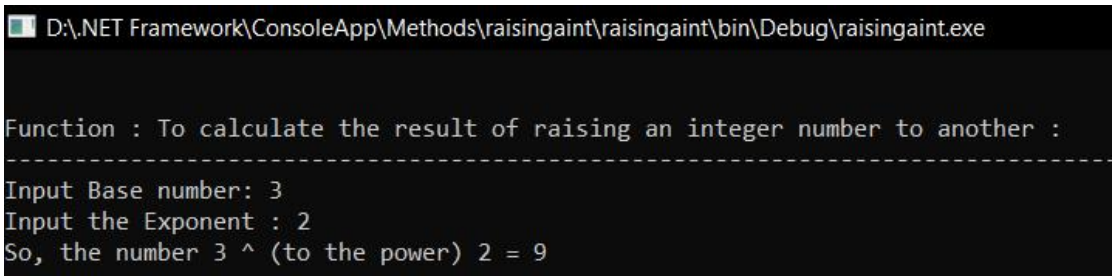
C# Sharp to calculate the sum of elements in an array.



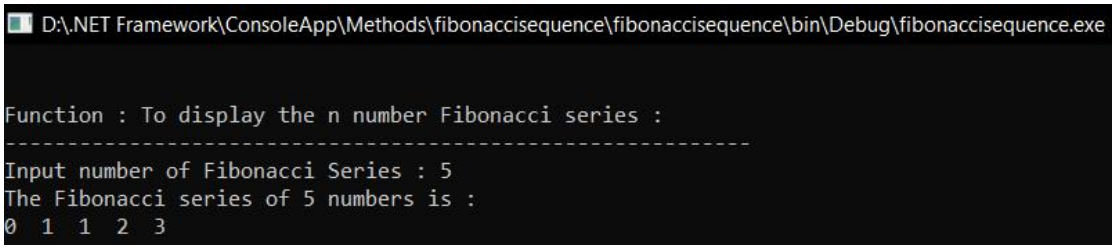
C# Sharp to create a function to swap the values of two integer numbers



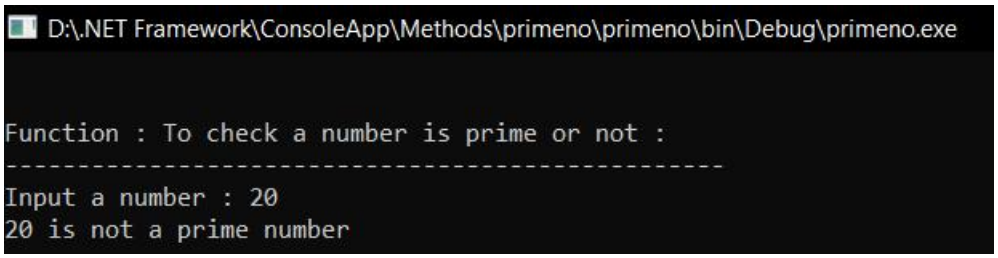
C# Sharp to create a function to calculate the result of raising an integer number to another



C# Sharp to create a function to display the n number Fibonacci sequence



C# Sharp to create a function to check whether a number is prime or not.



C# Sharp to create a function to calculate the sum of the individual digits of a given number