

4 student:

Single Dimensional Arrays

1. [st4-task-01.cs] {0.3 points} An array of integers is given. The values of its elements:

-11, -23, 37, 51, -56, -61, 71, 89

1. Create a function to display the array.

2. Create another function to find the addition of the array elements the first digit of which is 5 (e.g. 51). The signature of the function must be as following:

```
static void FindProductDigit5(int[] arr, ref int sum)
```

Expected output:

Array:

-11 -23 37 51 -56 -61 71 89

sum is: -5

Two-dimensional Arrays

2. [st4-task-02.cs] {0.3 points} Create a function called `FillMatrix` to fill a 6-by-6 array with random numbers in the range from -30 to 50 and display them. Create one more function to print out the product of positive elements. The signature of the function must be as following:

```
static int PrintProductMatrix(int[,] m)
```

Expected output:

The matrix 6 x 6:

```
6 27 -26 46 41 16
11 18 43 3 24 28
-8 -20 -20 47 -23 3
-3 43 -27 41 -12 -14
16 -26 -5 -11 36 -8
5 14 -27 32 -26 46
product = 905969664
```

String and Using StringBuilder class

3. [st4-task-03.cs] {0.4 points} The sentence is entered. Create a function to change the sentence by replacing a whitespace between the words with a period (.). You should use `StringBuilder` class (no standard method should be used). The signature of the function must be as following:

```
static void replaceSpace(ref StringBuilder sb)
```

Expected output:

Please, enter the sentence:

one two three

new sentence: one.two.three