

3 student:

Single Dimensional Arrays

1. [st3-task-01.cs] {0.3 points} An array of integers is given. The values of its elements:

-11, -23, 37, 41, -56, -61, 71, 89

1. Create a function to display the array.

2. Create another function to print the product of the array elements the last digit of which is 1 (e.g. 41). The signature of the function must be as following:

```
static void FindProductDigit1(int[] arr, ref int product)
```

Expected output:

Array:

-11 -23 37 41 -56 -61 71 89

product is: 1953281

Two-dimensional Arrays

2. [st3-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 the addition of negative elements. The signature of the function must be as following:

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

Expected output:

The matrix 6 x 6:

```
 1 26 -15 18 27 35
-15 34 10 12 -22 -30
14 20 1 -10 -16 29
-18 -15 39 43 40 46
-7 17 37 27 0 20
35 6 -23 -4 -26 11
sum = -201
```

String and Using StringBuilder class

3. [st3-task-03.cs] {0.4 points} The sentence is entered. Create a function to change the sentence by replacing 'c' char with 'k' char. You should use *StringBuilder* class (no standard method should be used). The signature of the function must be as following:

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

Expected output:

Please, enter the sentence:

Rostov city

new sentence: Rostov kity