Основная программа:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using ClassLibrary1;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

int[] arr\_C = { 2, 5, 7, -3, 5, -1 };

int[] arr\_D = { 3, 65, 78, 23, -54, 23, 13, 41, -9, 32 };

var operation = new ClassLibrary1.ArrayOperation();

try

{

int[] changedArray\_C = operation.getChangedArray(arr\_C);

int[] changedArray\_D = operation.getChangedArray(arr\_D);

Console.WriteLine("First Array:");

foreach (int i in arr\_C)

{

Console.Write("{0} ", i);

}

Console.WriteLine("\nChanged First Array:");

foreach (int i in changedArray\_C)

{

Console.Write("{0} ", i);

}

Console.WriteLine();

Console.WriteLine("Second Array");

foreach (int i in arr\_D)

{

Console.Write("{0} ", i);

}

Console.WriteLine("\nChanged Second Array:");

foreach (int i in changedArray\_D)

{

Console.Write("{0} ", i);

}

}

catch (Exception ex)

{

Console.WriteLine(ex.Message);

}

Console.ReadKey();

}

}

}

Библиотека:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ClassLibrary1

{

public class ArrayOperation

{

public int[] getChangedArray(int[] inArray)

{

int[] temp = new int[inArray.Length];

Array.Copy(inArray, temp, temp.Length);

int index\_1 = Array.FindIndex(temp, i => (i < 0));

int index\_2 = Array.FindLastIndex(temp, i => (i < 0));

if ((index\_1 == temp.Length - 1) | (index\_1 == index\_2) | (index\_2 == 0))

{

throw new InvalidOperationException("Операция невозможна для данного аргумента!");

}

else

{

int n = temp[0];

temp[0] = temp[Array.FindIndex(temp, index\_1 + 1, l => (l < 0))];

temp[Array.FindIndex(temp, index\_1 + 1, f => (f < 0))] = n;

}

return temp;

}

}

}