using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace lab6Q7

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter the size of the arrays: ");

int size =int.Parse(Console.ReadLine());

int[] array1 = new int[size];

int[] array2 = new int[size];

Console.WriteLine("Enter values for the 1st array: ");

for(int i=0;i<size;i++)

{

Console.WriteLine("Enter value {0}: ", i + 1);

array1[i] = int.Parse(Console.ReadLine());

}

Console.WriteLine("Enter values for the second array:");

for (int i = 0; i < size; i++)

{

Console.WriteLine("Enter value{0}: ", i + 1);

array2[i] = int.Parse(Console.ReadLine());

}

int[] vectorsum= new int[size];

int[] vectorProduct= new int[size];

int scalarsum = 0;

int scalarproduct = 1;

for(int i=0;i<size; i++)

{

vectorsum[i] = array1[i] + array2[i];

vectorProduct[i] = array1[i] \* array2[i];

scalarsum += array1[i] \* array2[i];

scalarproduct \*= array1[i]\* array2[i];

}

Console.WriteLine("scalar sum: {0}", scalarsum);

Console.WriteLine("Vector Sum:");

DisplayArray(vectorsum);

Console.WriteLine("Vector Product:");

DisplayArray(vectorProduct);

Console.WriteLine("Scalar Product: {0}", scalarproduct);

Console.ReadLine();

static void DisplayArray(int[] array)

{

for (int i = 0; i < array.Length; i++)

{

Console.Write(array[i] + " ");

}

Console.WriteLine();

Console.ReadLine();

}

}

}

}