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7.

namespace lab07Q7

{

internal class Program

{

static void Main(string[] args)

{

var random = new Random();

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

Console.WriteLine();

int[] array1 = new int[size];

int[] array2 = new int[size];

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

{

array1[i] = random.Next(0, 100);

array2[i] = random.Next(0, 100);

}

int scalarSum = 0;

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

{

scalarSum += array1[i];

}

int[] vectorSum = new int[size];

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

{

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

}

int[] vectorProduct = new int[size];

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

{

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

}

int scalarProduct = 0;

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

{

scalarProduct += vectorProduct[i];

}

Console.WriteLine("Scalar sum: " + scalarSum);

Console.Write("Vector sum: ");

foreach (int value in vectorSum)

{

Console.Write(value + " ");

}

Console.WriteLine();

Console.Write("Vector product: ");

foreach (int value in vectorProduct)

{

Console.Write(value + " ");

}

Console.WriteLine();

Console.WriteLine("Scalar product: " + scalarProduct);

Console.ReadLine();

}

}

}

8.

1)

namespace lab07Q8

{

internal class Animal

{

public void animal()

{

Console.WriteLine("I am an animal");

}

}

internal class Dog:Animal

{

public void dog()

{

Console.WriteLine("I have four legs");

}

}

}