**8\_1\_Tapshirma**

for, while, do-while циклдарды колдонуу менен бир ѳлчѳмдүү массивди кокус сандар менен толтуруп, Массивдин эң чоң элементинин индексин аныктагыла.

***using System;***

***public class HW {***

***public static void Main() {***

***Console.Write("Enter size of array ");***

***int size = Int32.Parse(Console.ReadLine());***

***Random random = new Random();***

***//////////////////// FOR LOOP ///////////////***

***int[] arr1 = new int[size];***

***int max = -1000, imax = 0, i = 0;***

***Console.Write("First array we got: ");***

***for (i = 0; i < size; i++) {***

***arr1[i] = random.Next(-1000, 1000);***

***Console.Write("{0} ", arr1[i]);***

***if (arr1[i] > max) {***

***max = arr1[i];***

***imax = i;***

***}***

***}***

***Console.WriteLine();***

***Console.WriteLine("Max element in array is {0}, indexed in {1}", max, imax);***

***Console.WriteLine();***

***//////////////////// WHILE LOOP //////////////***

***int[] arr2 = new int[size];***

***int temp = size; max = -1000; imax = 0; i = 0;***

***Console.Write("Second array we got: ");***

***while (size > 0)***

***{***

***arr2[i] = random.Next(-1000, 1000);***

***Console.Write("{0} ", arr2[i]);***

***if (arr2[i] > max)***

***{***

***max = arr2[i];***

***imax = i;***

***}***

***i++;***

***size--;***

***}***

***Console.WriteLine();***

***Console.WriteLine("Max element in array is {0}, indexed in {1}", max, imax);***

***Console.WriteLine();***

***///////////////////// DO...WHILE LOOP /////////////////***

***max = -1000; imax = 0; i = 0; size = temp;***

***int[] arr3 = new int[size];***

***Console.Write("Third array we got: ");***

***do {***

***arr3[i] = random.Next(-1000, 1000);***

***Console.Write("{0} ", arr3[i]);***

***if (arr3[i] > max)***

***{***

***max = arr3[i];***

***imax = i;***

***}***

***i++;***

***size--;***

***} while (size > 0);***

***Console.WriteLine();***

***Console.WriteLine("Max element in array is {0}, indexed in {1}", max, imax);***

***Console.WriteLine();***

***}***

***}***

**8\_2\_Tapshirma**

a = [1, 6, 9, 18, 27, 36, 51, 68, 82, 101] массиви берилген. Бул массивдин так элементтерин башка массивке алып, жыйынтыгын чыгаргыла.

*using System;*

*public class HW {*

*public static void Main() {*

*int[] arr = {1, 6, 9, 18, 27, 36, 51, 68, 82, 101};*

*int count = arr.Length, k = 0;*

*int[] odd = new int[count];*

*Console.Write("Array with all elements\n\t");*

*for (int i = 0; i < count; i++) {*

*if (arr[i] % 2 == 1) {*

*odd[k++] = arr[i];*

*}*

*Console.Write(" {0}", arr[i]);*

*}*

*Console.Write("\nArray with odd elements\n\t");*

*for (int i = 0; i < k; i++) {*

*Console.Write(" {0}", odd[i]);*

*}*

*Console.WriteLine();*

*}*

*}*

**8\_3\_Tapshirma**

NxM массивин кокус сандар менен толтургула, элементтер кайталанышы мүмүкүн. Бул массивте K элементинин акыркы кирүү индекстерин аныктагыла.

*using System;*

*public class HW {*

*public static void Main() {*

*Console.WriteLine("Enter values for n, m: ");*

*int n = Int32.Parse(Console.ReadLine()), m = Int32.Parse(Console.ReadLine());*

*Random random = new Random();*

*int[,] arr = new int[n, m];*

*Console.WriteLine("Array we got:");*

*for (int i = 0; i < n; i++) {*

*for (int j = 0; j < m; j++) {*

*arr[i, j] = random.Next(0, 100);*

*Console.Write("\t{0}", arr[i, j]);*

*}*

*Console.WriteLine();*

*}*

*Console.WriteLine("Enter value for k:");*

*int k = Int32.Parse(Console.ReadLine());*

*bool flag = false;*

*for (int i = n-1; i >= 0; i--) {*

*for (int j = m-1; j >= 0; j--) {*

*if (k == arr[i, j]) {*

*Console.WriteLine("Last \"{0}\" is placed in ({1},{2})", k, i+1, j+1);*

*flag = true;*

*break;*

*}*

*}*

*}*

*if (!flag) {*

*Console.WriteLine("{0} does not exist in array", k);*

*}*

*}*

*}*