using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ЛР6

{

internal class Program

{

int[] array = new int[10000];

static void FillArray()

{

Program arrayObject = new Program();

Random rnd = new Random();

arrayObject.array = new int[10000];

for (int i = 0; i < 10000; i++)

{

arrayObject.array[i] = rnd.Next(0, 9999);

int a = arrayObject.array[i];

if (i==0)

{

Console.Write(a);

}

else

{

Console.Write("\t" + a);

}

}

}

public static void FillArray<T>(int size, T value, System.Collections.Generic.Dictionary<int, T> array, T zeroValue);

public int[] SortArray(int[] array, int leftIndex, int rightIndex)

{

var i = leftIndex;

var j = rightIndex;

var pivot = array[leftIndex];

while (i <= j)

{

while (array[i] < pivot)

{

i++;

}

while (array[j] > pivot)

{

j--;

}

if (i <= j)

{

int temp = array[i];

array[i] = array[j];

array[j] = temp;

i++;

j--;

}

}

if (leftIndex < j)

SortArray(array, leftIndex, j);

if (i < rightIndex)

SortArray(array, i, rightIndex);

return array;

}

static void Main(string[] args)

{

DateTime start = DateTime.Now;

FillArray();

DateTime end = DateTime.Now;

Console.WriteLine("\n"+"Время формирование массива:"+"\n");

Console.WriteLine(end.Subtract(start));

Console.WriteLine(end - start);

SortArray(arrayObject.array);

}

}

}