```csharp
using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;


namespace statistics_project

}

internal class Program

}

static void Main(string[] args)

}

int Q = 0;

int Q1 = 0, Q3 = 0;

double median = 0f;

int s = 0, old_counter = 0, new_counter = 0, mode = 0;

double sum_for_div = 0f;

Console.WriteLine(" how many numbers would you like to enter ?");

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

int[] nums = new int[x];

Console.WriteLine("Enter numbers ");

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

}

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

{

for (int i = 0; i < 1000; i++)

}

for (int k = 0; k < x - 1; k++)

}

if (nums[k] > nums[k + 1])

}
```

```csharp
s = nums[k];

nums[k] = nums[k + 1];

nums[k + 1] = s;

{

{

{


MEDIAN//

if (x % 2 == 0)

}

int first = nums[x / 2];

int second = nums[(x / 2) - 1];

int sum = nums[first] + nums[second];

median = sum / 2;

{

else

}

int g = x + 1;

int median_index = (g / 2) - 1;

median = nums[median_index];

{


Q1,Q3//

Console.WriteLine("if you would like more than one quarter please enter 1 ");

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

if (choice == 1)

}

for (int i = 0; i < 2; i++)

}

Console.WriteLine("please enter which quarter you would like either 1 or 3");

int EQ = int.Parse(Console.ReadLine());
```

```
Q = Quarter(x, EQ);

Q = Q - 1;

if (EQ == 1)

}

Q1 = nums[Q + 1];

{

else

}

Q3 = nums[Q];

{


{

{


MODE//

for (int i = 0; i < x - 1; i++)

}

for (int j = i + 1; j < x - 1; j++)

}

if (nums[i] == nums[j])

}

new_counter += 1;

{

{

if (new_counter > old_counter)

}

old_counter = new_counter;

mode = nums[i];

{

{

range//

int range = nums[x - 1] - nums[0];
```

```
MEAN//

int sum_for_mean = 0;

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

}

sum_for_mean = sum_for_mean + nums[i];

{

double mean = sum_for_mean / x;

standard division //

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

}

sum_for_div = sum_for_div + ((nums[i] - mean) * (nums[i] - mean));

{

double standard_division = sum_for_div / x;

p90//

int N_p90 = x/9;

int p90 = nums[N_p90];

summation of divisions //

double sub_d = 0;

double sum_d = 0;

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

}

sub_d = nums[0] - mean;

sum_d = sub_d + sum_d;

{


outlieres //

double IQR = Q3-Q1;

double H_outliere = Q3 + 1.5 * (IQR);

double L_outliere = Q1 - 1.5 * (IQR);


output//
```

```csharp
Console.WriteLine(" the mode is : {0}  , the range is : {1} , the median is : {2} , the meam is :
{3} , standard division is : {4} , the p90 is : {5} , sum of deviation is : {6} ", mode, range, median, mean,
standard_division, p90, sum_d);

Console.WriteLine(" Q1 = {0} , Q2 = {1},IQR = {2} ", Q1, Q3,IQR);

if (nums[0] < L_outliere && nums[x - 1] > H_outliere)

}

Console.WriteLine("high outlier is {0} & lower outlier is {1} ", H_outliere, L_outliere);

{

else if (nums[0] < L_outliere)

}

Console.WriteLine("lower outlier is {0}", L_outliere);

{

else if (nums[x - 1] > H_outliere)

}

Console.WriteLine("high outlier is {0}", H_outliere);

{

else Console.WriteLine("no outliers found ");

Console.ReadKey();

{

static int Quarter(int x, int EQ)

}

int s = (EQ * (x + 1)) / 4;

if (EQ == 2)

s = s - 1;

return s;

{

{

{
```