```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])

}
```

```
;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//

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

{

{

{
```

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