Lab 1

Direction: Submit the typed source code.

Class Statistics

For this lab, you will be evaluating the class from assignment 1. To recap, a student's record consists of the following assignments:

Assignments	H_{omework}	Homework 2	Homework 3	Homework 4	Homework 5	Homework 6	Homework 7	$H_{OmeWork~8}$	Homework 9		Quiz 1	$Quiz_2$	Quiz 3	$Quiz_{\not 4}$	$Quiz_{5}$	$\it Midterm$	Final
Indices	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

You will have to complete the following code.

I.

Name:	Sort()	
Parameter(s):	float[]: data	
	int: size	
Return:	nothing	
Description:	sorts the elements of data whose size is size in ascending order.	

II.

Name:	Maximum()		
Parameter(s):	float[]: data		
	int: size		
Return:	float		
Description:	returns the largest element of data whose size is size.		

III.

Name:	Minimum()		
Parameter(s):	float[]: data		
	int: size		
Return:	float		
Description:	returns the smallest element of data whose size is size.		

IV.

Name:	Range()
Parameter(s):	float[]: data
	int: size
Return:	float
Description:	returns the distance between the smallest and largest elements of data whose
	size is size.

Name:	Median()
Parameter(s):	float[]: data
i arameter (s).	int: size
Return:	float
Description:	returns the median of elements of data whose size is size. If an ordered list
	has an odd number of elements, the median is the middle number; otherwise,
	it is the average of the two middle numbers.

VI.

Name:	Mean()		
Parameter(s):	float[]: data		
	int: size		
Return:	float		
Description:	returns the average of elements of data whose size is size.		

VII.

Name:	StandardDeviation()		
Parameter(s):	float[]: data		
	int: size		
Return:	float		
Description:	returns the standard deviation of elements of data whose size is size.		

VIII.

Name:	OutlinerCount()
Parameter(s):	float[]: data
Farameter(s):	int: size
Return:	float
Description:	returns the number of elements of data whose size is size that are outliners.
	An outliner is a values whose z-score is either less than -2 or greater than 2.

Type	Task	Problem Set
Г	A	$\{I, II, V, VI\}$
1	В	{III, IV, VII, VIII}
	A	{I, VI}
Θ	В	$\{II, III, IV, V\}$
	C	{VII, VIII}
Λ	A	$\{I,III\}$
	В	{II, VII}
	C	{IV, VIII}
	D	{V, VI}