

Homework 2 Basic Outputs

1st Run

```
myang5@cscd-linux01: ~/CSCD240/HW2
This is the basic part of the program that asks the user to type the number of integers,
i.e., 'n'. Next, allocate memory for 'n' integers, read the values of 'n' integers into
the allocated memory using scanf; next, find the mean, median and average of 'n' inte
gers.Lastly, the allocated memory needs to be freed.

Read using scanf how many integers you would like to type:
5
Please type 'n' integers:
3
6
9
5
1
Displaying the numbers:
{ 3, 6, 9, 5, 1 }
Mean of the numbers is: 4.800000
Median of the numbers is: 5.000000
Standard deviation of the numbers is: 3.033150
myang5@cscd-linux01:~/CSCD240/HW2$
```

2nd Run

```
myang5@cscd-linux01: ~/CSCD240/HW2
myang5@cscd-linux01:~/CSCD240/HW2$ gcc -o SortModifyArrayBasicHW2out SortModifyArray_tes
t.c -lm
myang5@cscd-linux01:~/CSCD240/HW2$ ./SortModifyArrayBasicHW2out
This is the basic part of the program that asks the user to type the number of integers,
i.e., 'n'. Next, allocate memory for 'n' integers, read the values of 'n' integers into
the allocated memory using scanf; next, find the mean, median and average of 'n' inte
gers.Lastly, the allocated memory needs to be freed.

Read using scanf how many integers you would like to type:
10
Please type 'n' integers:
3
6
8
9
6
5
3
6
9
2
Displaying the numbers:
{ 3, 6, 8, 9, 6, 5, 3, 6, 9, 2 }
Mean of the numbers is: 5.700000
Median of the numbers is: 5.500000
Standard deviation of the numbers is: 2.496664
myang5@cscd-linux01:~/CSCD240/HW2$
```

3rd Run

```
myang5@cscd-linux01: ~/CSCD240/HW2
myang5@cscd-linux01:~/CSCD240/HW2$ gcc -o SortModifyArrayBasicHW2out SortModifyArray_test.c -lm
myang5@cscd-linux01:~/CSCD240/HW2$ ./SortModifyArrayBasicHW2out
This is the basic part of the program that asks the user to type the number of integers,
i.e., 'n'. Next, allocate memory for 'n' integers, read the values of 'n' integers into
the allocated memory using scanf; next, find the mean, median and average of 'n' integers.
Lastly, the allocated memory needs to be freed.

Read using scanf how many integers you would like to type:
8
Please type 'n' integers:
10
36
21
86
82
103
29
11
Displaying the numbers:
{ 10, 36, 21, 86, 82, 103, 29, 11 }
Mean of the numbers is: 47.250000
Median of the numbers is: 35.500000
Standard deviation of the numbers is: 37.162769
myang5@cscd-linux01:~/CSCD240/HW2$
```