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2/18/2021
CSCD240
SortModifyArrayBonusHW2out

Run 1:

```
[seanabo@Seans-MBP HW2 % ./SortModifyArrayBonus
 Please type your integer:
 8
 Displaying the numbers typed so far:
 8
 Mean of the numbers is: 8.000000
 Median of the numbers is: 8.000000
 Standard deviation of the numbers is: 0.000000
 Please type your integer:
 12
 Displaying the numbers typed so far:
 8 12
 Mean of the numbers is: 10.000000
 Median of the numbers is: 10.000000
 Standard deviation of the numbers is: 2.828427
 Please type your integer:
 14
 Displaying the numbers typed so far:
 8 12 14
 Mean of the numbers is: 11.333333
 Median of the numbers is: 12.000000
 Standard deviation of the numbers is: 3.055050
 Please type your integer:
 19
 Displaying the numbers typed so far:
 8 12 14 19
 Mean of the numbers is: 13.250000
 Median of the numbers is: 13.000000
 Standard deviation of the numbers is: 4.573474
 Please type your integer:
[seanabo@Seans-MBP HW2 %
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 seanabo@Seans-MBP HW2 %
```

Run 2:

```
[seanabo@Seans-MBP HW2 % ./SortModifyArrayBonus
Please type your integer:
6
Displaying the numbers typed so far:
6
Mean of the numbers is: 6.000000
Median of the numbers is: 6.000000
Standard deviation of the numbers is: 0.000000
Please type your integer:
4
Displaying the numbers typed so far:
6 4
Mean of the numbers is: 5.000000
Median of the numbers is: 5.000000
Standard deviation of the numbers is: 1.414214
Please type your integer:
3
Displaying the numbers typed so far:
4 6 3
Mean of the numbers is: 4.333333
Median of the numbers is: 4.000000
Standard deviation of the numbers is: 1.527525
Please type your integer:
2
Displaying the numbers typed so far:
3 4 6 2
Mean of the numbers is: 3.750000
Median of the numbers is: 3.500000
Standard deviation of the numbers is: 1.707825
Please type your integer:
1
Displaying the numbers typed so far:
2 3 4 6 1
Mean of the numbers is: 3.200000
Median of the numbers is: 3.000000
Standard deviation of the numbers is: 1.923538
Please type your integer:
seanabo@Seans-MBP HW2 %
```

Run 3:

```
seanabo@Seans-MBP HW2 % ./SortModifyArrayBonus
Please type your integer:
7
Displaying the numbers typed so far:
7
Mean of the numbers is: 7.000000
Median of the numbers is: 7.000000
Standard deviation of the numbers is: 0.000000
Please type your integer:
5
Displaying the numbers typed so far:
7 5
Mean of the numbers is: 6.000000
Median of the numbers is: 6.000000
Standard deviation of the numbers is: 1.414214
Please type your integer:
3
Displaying the numbers typed so far:
5 7 3
Mean of the numbers is: 5.000000
Median of the numbers is: 5.000000
Standard deviation of the numbers is: 2.000000
Please type your integer:
1
Displaying the numbers typed so far:
3 5 7 1
Mean of the numbers is: 4.000000
Median of the numbers is: 4.000000
Standard deviation of the numbers is: 2.581989
Please type your integer:
9
Displaying the numbers typed so far:
1 3 5 7 9
Mean of the numbers is: 5.000000
Median of the numbers is: 5.000000
Standard deviation of the numbers is: 3.162278
Please type your integer:
seanabo@Seans-MBP HW2 %
```