

Temperature Sensor Program

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Test Case Table

Test Case No.	Sub-Case	Input Size	Input Values	Expected Output	Actual Output	Match (Yes/No)
1	BVA	1	[-50]	Min: -50.0°C, Max: -50.0°C, Avg: -50.0°C	Min: -50.0°C, Max: -50.0°C, Avg: -50.0°C	Yes
2	BVA	2	[150]	Min: 150.0°C, Max: 150.0°C, Avg: 150.0°C	Min: 150.0°C, Max: 150.0°C, Avg: 150.0°C	Yes
3	BVA	2	[-49, 149]	Min: -49.0°C, Max: 149.0°C, Avg: 50.0°C	Min: -49.0°C, Max: 149.0°C, Avg: 50.0°C	Yes
4	Robustness	3	[-60, 20, 160]	An invalid input was provided.	An invalid input was provided.	Yes
5	Robustness	3	[20, "abc", 30]	An invalid input was provided.	An invalid input was provided.	Yes
6	Robustness	3	[10, "@", -40]	An invalid input was provided.	An invalid input was provided.	Yes
7	Special Scenrarios	2	[2**31 - 1, -2**31]	An invalid input was provided.	An invalid input was provided.	Yes
8	Special Scenrarios	3	[50, 50, 50]	Min: 50.0°C, Max: 50.0°C, Avg: 50.0°C	Min: 50.0°C, Max: 50.0°C, Avg: 50.0°C	Yes
9	Special Scenrarios	0	[]	An invalid input was provided.	An invalid input was provided.	Yes

Screenshots

Test Case 1

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\Documents\hezek\Python\Python312\Python312\python.exe"
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): -50
Min: -50.0°C, Max: -50.0°C, Avg: -50.0°C
```

Test Case 2

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\Documents\hezek\Python\Python312\Python312\python.exe"
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): 150
Min: 150.0°C, Max: 150.0°C, Avg: 150.0°C
```

Test Case 3

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\Documents\hezek\Python\Python312\Python312\python.exe"
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): -49, 149
Min: -49.0°C, Max: 149.0°C, Avg: 50.0°C
```

Test Case 4

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\Documents\hezek\Python\Python312\Python312\python.exe"
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): -60,20,160
An invalid input was provided.
```

Test Case 5

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\Documents\hezek\Python\Python312\Python312\python.exe"
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): 20, abc, 30
An invalid input was provided.
```

Test Case 6

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\Documents\hezek\Python\Python312\Python312\python.exe"
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): 10,@,-40
An invalid input was provided.
```

Test Case 7

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\Desktop\hezek\Python\Python312\Python312\python.exe"
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): 2**31 - 1,-2**31
An invalid input was provided.
```

Test Case 8

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\OneDrive\
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150): 50,50,50
Min: 50.0°C, Max: 50.0°C, Avg: 50.0°C
```

Test Case 9

```
C:\Users\hezek\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\hezek\
Please enter temperatures (in C) separated by commas (e.g., -50, 0, 100, 150):
An invalid input was provided.
```