List Assignment 2 Question 1 Trace Table

Trace table for an even number of marks stored in the list.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Line number | x | number | Length | ave | value | output |
| 1 | [] |  |  |  |  |  |
| 2 |  | 77 |  |  |  |  |
| 3 |  | 99 |  |  |  |  |
| 4 |  | 88 |  |  |  |  |
| 5 |  | 66 |  |  |  |  |
| 6 |  | -1 |  |  |  |  |
| 7 | [77,99,88,66] |  |  |  |  |  |
|  | [66,77,88,99] |  |  |  |  |  |
|  |  |  |  |  |  | The lowest mark in your list is 66 |
|  |  |  |  |  |  | The highest mark in your list is 99 |
|  |  |  | 4 |  |  |  |
|  |  |  |  | 82.5 |  |  |
|  |  |  |  |  |  | The class average is 82.5 |
|  |  |  | 2 |  |  |  |
|  |  |  |  |  | 1 |  |
|  |  |  |  |  |  | The median of the class is 82.5 |

Trace table for an odd number of marks stored in the list.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Line number | x | number | Length | ave | value | output |
| 1 | [] |  |  |  |  |  |
| 2 |  | 98 |  |  |  |  |
| 3 |  | 97 |  |  |  |  |
| 4 |  | 94 |  |  |  |  |
| 5 |  | -1 |  |  |  |  |
| 6 | [98,97,94] |  |  |  |  |  |
| 7 | [94,97,98] |  |  |  |  |  |
|  |  |  |  |  |  | The lowest mark in your list is 94 |
|  |  |  |  |  |  | The highest mark in your list is 98 |
|  |  |  | 3 |  |  |  |
|  |  |  |  | 96.33 |  |  |
|  |  |  |  |  |  | The class average is 96.33 |
|  |  |  | 1.5 |  |  |  |
|  |  |  |  |  | 1 |  |
|  |  |  |  |  |  | The median of the class is 97 |