- a) The for loop runs N times,
 - **N** = the length of the List L.
 - So the Time Complexity of the mean(L) function is **O(N)**.
 - This means it is a linear time complexity.

Proof:

- Worst Case: total number of times the for loops gets executed will be N times
 - **N** = length of L
- The operation of (total += x) are executed at constant time.
- The return values are also executed at constant time.
- Therefore, the time complexity of the mean(L) function is **O(N)**.
- **b)** The first loop gets executed **n** times
 - o **n** is a positive integer
 - So the Time Complexity for running the first loop is O(n * Time Complexity of the second for loop).
 - The rows.append([]) binding that is inside the first for loop, is appending a list to the rows list.
 - Because the appended list is empty, the time complexity for this operation is constant.
 - The second for loop that is located within the first for loop will be executed **n** times.
 - So the running Time Complexity of the second for loop is **O(n)**.
 - As for the remainder statements they are constant.
 - Therefore, the Time Complexity of the first for loop is:
 - O(n * Time Complexity of the second for loop)
 - O(n * O(n))
 - o O(n^2)
 - The overall Time Complexity is **O(n^2).**