

B Bukanga 221005009

- Global Variables (Data Section)
  - stepCountArray: Holds the simulated step counts for 7 days (static array).
  - stepCountSum: Holds the total of all step counts, which will be calculated through recursion.
  - stepCountAverage: Holds the calculated average of the step counts.
  - numDays: Holds the total number of days (7 days).

newline, strOutputSum, strOutputArray: Strings used for displaying outputs.

Initialization:

- Initialize the stepCountSum to 0.
- Prepare to recursively sum the step counts from the stepCountArray using the stack for storing/retrieving the current step count in each recursion.
- Recursive Function (RecursiveStepCount):
- Base Case: The recursion stops when the index reaches the size of the array (numDays).
- Recursive Step: The function retrieves the current step count from the array, pushes it to the stack, accumulates the value in stepCountSum, and calls itself with the next index.
- Stack Usage: The step counts are pushed to the stack before accumulation and popped back after the function returns.
- Average Calculation:
- Once the recursion is done, the average is computed by dividing the stepCountSum by numDays.

Output:

The total stepCountSum and stepCountAverage are displayed.

