

Algorithm: ExpenseTracker(E)

Input: An n -element array E of expenses each day.

Output: An n -element array A of values such that $A[i]$ is the average of elements $E[0], E[1], \dots, E[i]$

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1: Initialize  $a, i, j = 0$ 
2: for ( $i = 0; i < n; i = i + 1$ ) do
3:    $a \leftarrow 0$ 
4:   for ( $j = 0; j < i; i = i + 1$ ) do
5:      $a \leftarrow a + E[j]$ 
6:   end for
7:    $A[i] \leftarrow a/i + 1$ 
8: end for
9: return  $A$ 
```