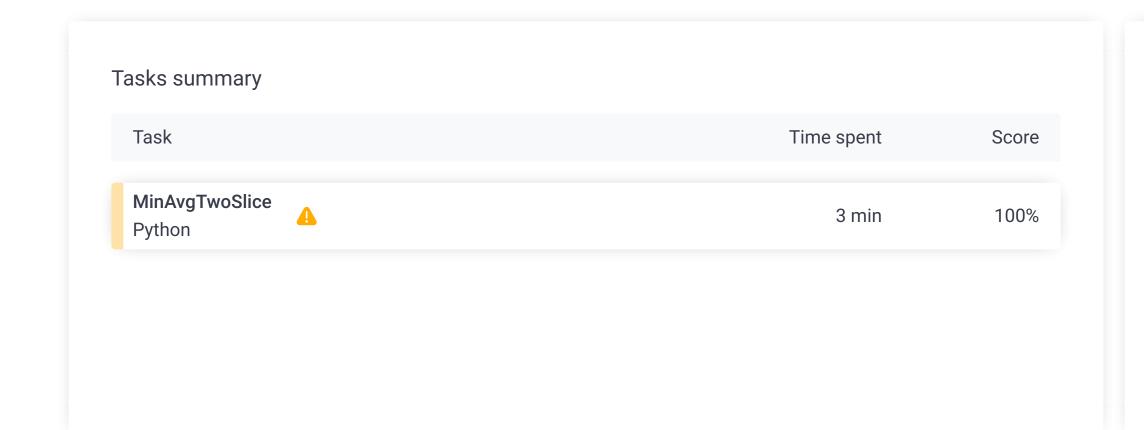
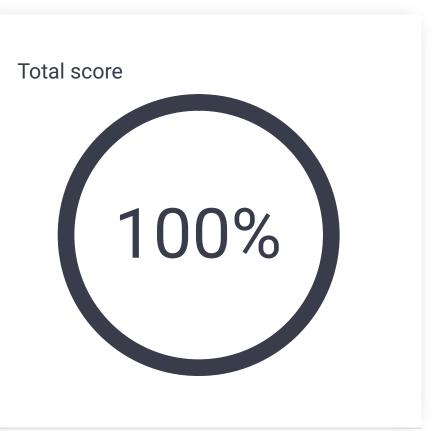
CodeCheck Report: training7PPFEF-AU2

Test Name:

Summary Timeline





Tasks Details

1. MinAvgTwoSlice
Find the minimal average of any slice containing at least two elements.



Task description

A non-empty array A consisting of N integers is given. A pair of integers (P, Q), such that $0 \le P < Q < N$, is called a *slice* of array A (notice that the slice contains at least two elements). The *average* of a slice (P, Q) is the sum of A[P] + A[P + 1] + ... + A[Q] divided by the length of the slice. To be precise, the average equals (A[P] + A[P + 1] + ... + A[Q]) / (Q - P + 1).

For example, array A such that:

- A[0] = 4
- A[1] = 2A[2] = 2
- A[2] = 2A[3] = 5
- A[4] = 1
- A[5] = 5A[6] = 8

contains the following example slices:

- slice (1, 2), whose average is (2 + 2) / 2 = 2;
- slice (3, 4), whose average is (5 + 1) / 2 = 3;
 slice (1, 4), whose average is (2 + 2 + 5 + 1) / 4 = 2.5.

The goal is to find the starting position of a slice whose average is minimal.

Write a function:

def solution(A)

that, given a non-empty array A consisting of N integers, returns the starting position of the slice with the minimal average. If there is more than one slice with a minimal average, you should return the smallest starting position of such a slice.

For example, given array A such that:

- A[0] = 4
- A[0] = 4 A[1] = 2
- A[2] = 2
- A[3] = 5A[4] = 1
- A[5] = 5A[6] = 8

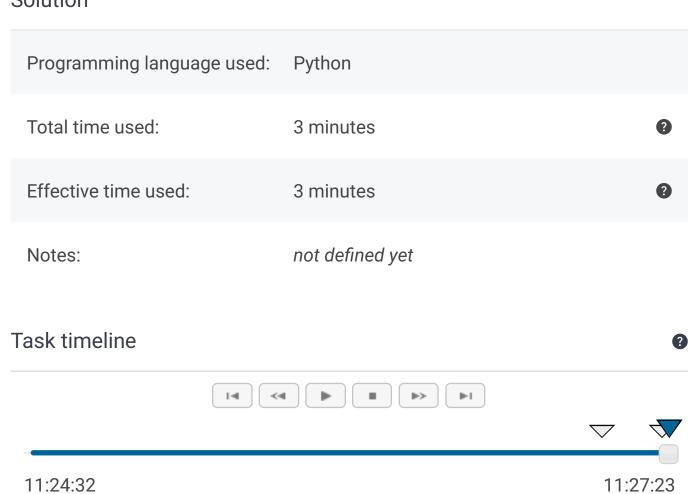
the function should return 1, as explained above.

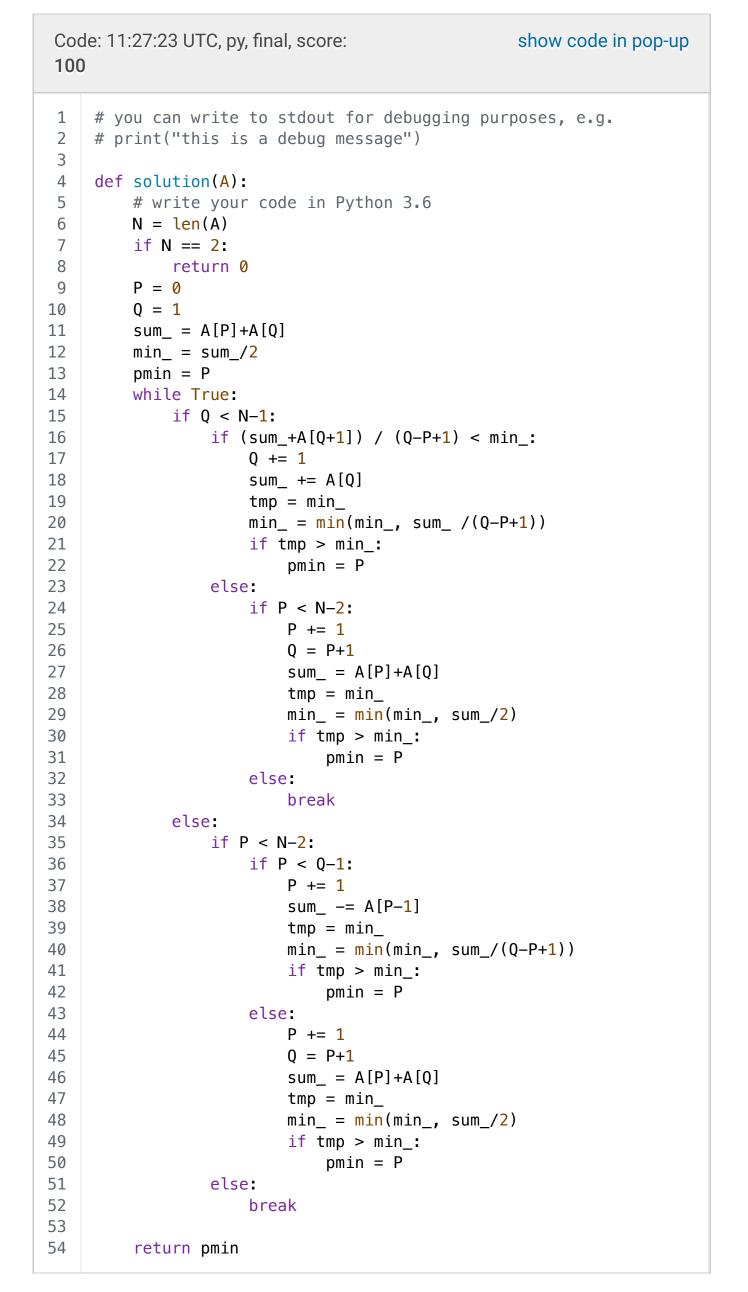
Write an **efficient** algorithm for the following assumptions:

- N is an integer within the range [2..100,000];
- each element of array A is an integer within the range [-10,000..10,000].

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Solution





Analysis summary

The solution obtained perfect score.

Analysis

