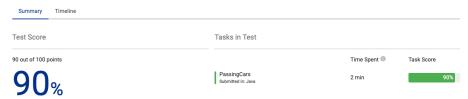


Candidate Report: Anonymous



TASKS DETAILS



Task description

A non-empty array A consisting of N integers is given. The consecutive elements of array A represent consecutive cars on a road.

Array A contains only 0s and/or 1s:

- O represents a car traveling east,
 Trepresents a car traveling west.

The goal is to count passing cars. We say that a pair of cars (P, Q), where $0 \le P < Q < N$, is passing when P is traveling to the east and Q is traveling to the west.

For example, consider array A such that:

- A[0] = 0 A[1] = 1 A[2] = 0 A[3] = 1 A[4] = 1

We have five pairs of passing cars: (0, 1), (0, 3), (0, 4), (2, 3), (2, 4).

Write a function:

class Solution { public int solution(int[] A); }

that, given a non-empty array A of N integers, returns the number of pairs of passing cars. The function should return -1 if the number of pairs of passing cars exceeds 1,000,000,000

For example, giver

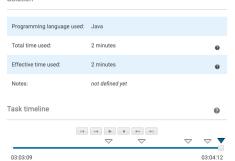
- A[0] = 0 A[1] = 1 A[2] = 0 A[3] = 1 A[4] = 1

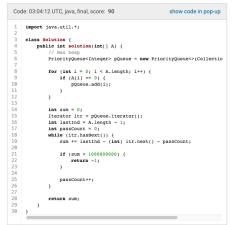
the function should return 5, as explained above.

Write an efficient algorithm for the following assumptions:

- N is an integer within the range [1..100,000]; each element of array A is an integer that can have one of the following values: 0, 1.
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Solution





Analysis summary

The following issues have been detected: timeout errors.

Analysis 👩

