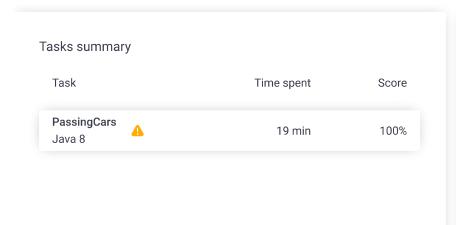
Codility_

CodeCheck Report: trainingTF3VHE-DKF

Test Name:

Check out Codility training tasks

Summary Timeline





Java 8

19 minutes

Tasks Details

1. PassingCars Task Score Correctness Performance Count the number of 100% 100% 100% passing cars on the road.

Solution

Programming language used:

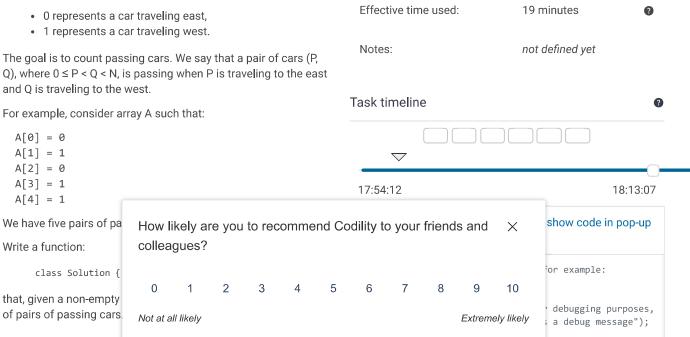
Total time used:

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:

The goal is to count passing cars. We say that a pair of cars (P,



The function should return -1 if the number of pairs of passing cars exceeds 1,000,000,000.

For example, given:

A[0] = 0A[1] = 1A[2] = 0

A[3] = 1A[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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```
8
     class Solution {
         public int solution(int[] A) {
10
             final int MAX_RESULT = 10000000000;
11
             int result = 0, one_counter=0;
             for(int i=A.length-1; i>=0; i--) {
12
                  if(A[i]==1) {
13
                      one_counter++;
14
15
                  }
16
                  else {
17
                      if(result>MAX_RESULT) {
18
                          return -1;
19
20
                      result+=one_counter;
21
22
             }
23
             return result;
24
25
     }
```

Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity: O(N)



colleagues?

Not at all likely

1

0

2

3