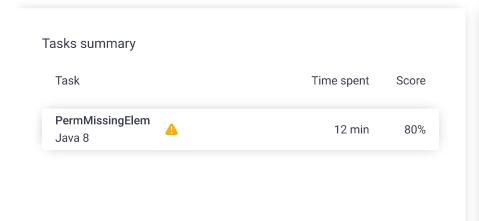
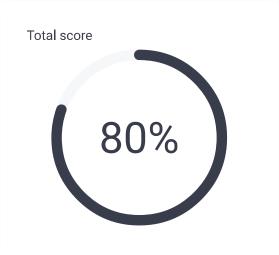
Codility_

CodeCheck Report: trainingSC2JC5-7P7

Test Name:

Al Assistant Transcript Summary Timeline





Check out Codility training tasks

Tasks Details

1. PermMissingElem Find the missing element in a given permutation.

Task Score

Correctness

80%

Performance

100%

Task description

An array A consisting of N different integers is given. The array contains integers in the range [1..(N + 1)], which means that exactly one element is missing.

Your goal is to find that missing element.

Write a function:

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

that, given an array A, returns the value of the missing element.

For example, given array A such that:

A[0] = 2

A[1] = 3

A[2] = 1

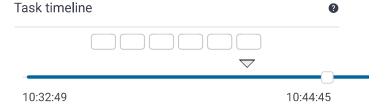
A[3] = 5

the function should return 4, as it is the missing element.

Write an efficient algorithm for the following assumptions:

Solution

Programming language used: Java 8 Total time used: 12 minutes Effective time used: 12 minutes Notes: not defined yet



- N is an integer within the range [0..100,000];
- · the elements of A are all distinct;
- each element of array A is an integer within the range [1..(N + 1)].

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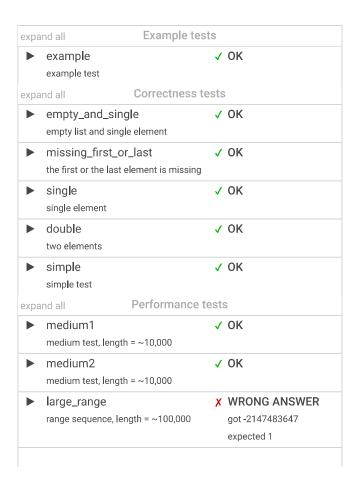
```
Code: 10:44:44 UTC, java,
                                    show code in pop-up
final, score: 80
     // you can also use imports, for example:
     // import java.util.*;
 2
 3
4
     // you can write to stdout for debugging purposes,
     // System.out.println("this is a debug message");
7
     class Solution {
         public int solution(int[] A) {
8
9
            int sum = 0;
10
             for(int i : A)
11
                 sum +=i;
             int n= A.length+1;
12
13
             int total = n*(n+1)/2;
14
             return total - sum ;
15
         }
16
     }
```

Analysis summary

The following issues have been detected: wrong answers.

Analysis

Detected time complexity: O(N) or O(N * log(N))



► large1 large test, length = ~100,000	√ OK
▶ large2	X WRONG ANSWER
large test, length = ~100,000	got -2147473647
	expected 10001