codility

Candidate Report: Anonymous

Test Name:

Summary Timeline

Test Score

50 out of 100 points

50%

Tasks in Test

Time Spent

Task Score

PermMissingElem Submitted in: Java 8

21 min

50%

TASKS DETAILS

Find

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

Task Score

50%

Performance 2

Cironnanoc

80%

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

 $A\lceil 2 \rceil = 1$

A[3] = 5

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

Write an efficient algorithm for the following assumptions:

- 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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Solution

Correctness

20%

Programming language used: Java 8

Total time used: 21 minutes

Effective time used: 21 minutes

Notes: not defined yet

Task timeline



09:21:42

09:41:54

```
Code: 09:41:53 UTC, java, final,
score: 50

// you can also use imports, for example:
// import java.util.*;

// you can write to stdout for debugging purposes, e.g.
// System.out.println("this is a debug message");

class Solution {
   public static int max = 1000000;
   public static boolean[] mem = new boolean[max + 1]
```

```
public static int solution(int[] a) {
11
12
                      if (a.length == 0)
13
14
15
                      for (int i = 0; i < a.length; i++) {
16
                              mem[a[i]] = true;
17
                      }
18
                      //System.out.println(Arrays.toString(mem))
19
20
21
                      for (int i = 1; i < a.length + 1; i++) {</pre>
22
                              if (!mem[i])
23
                                       return i;
25
26
                      return -1;
27
28
```

Analysis summary

The following issues have been detected: wrong answers.

For example, for the input [1] the solution returned a wrong answer (got -1 expected 2).

Analysis 2



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