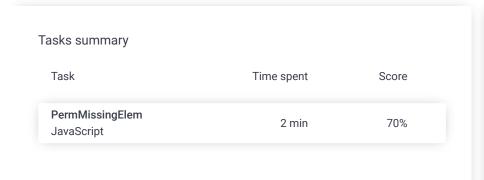
Codility_

Candidate Report: Anonymous

Check out Codility training tasks

Test Name:

Summary Timeline Feedback





Tasks Details

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

Task Score

70%

Correctness

Performance

100% 40%

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:

function solution(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:

- N is an integer within the range [0..100,000];
- the elements of A are all distinct;

Solution

Task timeline

Programming language used: JavaScript

Total time used: 2 minutes

Effective time used: 2 minutes

Notes: not defined yet



Code: 23:51:25 UTC, js, final, score: **70**

show code in pop-up

Test results - Codility

each element of array A is an integer within the range [1...
(N + 1)].

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```
// you can write to stdout for debugging purposes, e.
2
    // console.log('this is a debug message');
3
    function solution(A) {
4
         // write your code in JavaScript (Node.js 8.9.4)
5
 6
         let i = A.length + 1;
7
         while (i>0) {
8
             if (A.index0f(i) === -1) {
9
                 return i;
10
11
             i--;
12
13
```

Analysis summary

The following issues have been detected: timeout errors.

Analysis ?

Detected time complexity: O(N ** 2)

expand al	I	Example tests		
	ample Imple test		•	OK
expand al	I	Correctness tes	ts	
	npty_and_single pty list and single eler	ment	1	OK
	ssing_first_or_las		1	OK
	ngle gle element		1	OK
,	uble elements		1	OK
▶ sin	nple nple test		1	OK
expand al	I	Performance tes	ts	
	edium1 dium test, length = ~1	0,000	1	OK
	edium2 dium test, length = ~1	0,000	1	OK
	ge_range ge sequence, length =	~100,000	x	TIMEOUT ERROR running time: 2.532 sec., time limit: 0.384 sec.
	ge1 ge test, length = ~100,	000	x	TIMEOUT ERROR running time: 2.412 sec., time limit: 0.448 sec.
	ge2 ge test, length = ~100,	000	x	TIMEOUT ERROR running time: 3.032 sec., time limit: 0.400 sec.

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