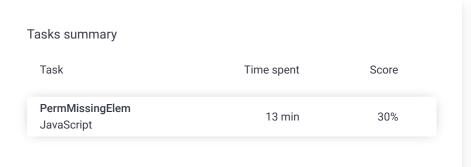
Codility_

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

Correctness Performance 60% 0%

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

Programming language used: JavaScript

Total time used: 13 minutes

Effective time used: 13 minutes

Notes: not defined yet

Task timeline



10:37:54 10:50:24

Code: 10:50:24 UTC, js, final,

show code in pop-up

score: 30

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.c
2
     // console.log('this is a debug message');
3
4
     function solution(A) {
5
         // write your code in JavaScript (Node.js 8.9.4)
6
         if (A.length === 0) {
7
             return 0;
8
         } else if (A.length === 1) {
9
             return A[0];
10
         } else {
11
             A.sort();
12
             if (A[0] != 1) {
13
                 return 1;
14
             } else {
                 for (let i=0; i<A.length; i++) {</pre>
15
16
                     if (A[i] != i+1) {
17
                          return i+1;
18
19
20
                 return A.length + 1;
21
             }
22
         }
23
     }
```

Analysis summary

The following issues have been detected: wrong answers.

For example, for the input $[\]$ the solution returned a wrong answer (got 0 expected 1).

Analysis 2

expan	nd all E	xample tests
•	example example test	✓ OK
expan	nd all Co	rectness tests
•	empty_and_single empty list and single element	WRONG ANSWER got 0 expected 1
•	missing_first_or_last the first or the last element is	✓ OK missing
>	single single element	★ WRONG ANSWER got 1 expected 2
•	double two elements	✓ OK
•	simple simple test	✓ OK
expan	nd all Per	formance tests
•	medium1 medium test, length = ~10,00	★ WRONG ANSWER got 2 expected 456
•	medium2 medium test, length = ~10,00	★ WRONG ANSWER got 2 expected 9998
•	large_range range sequence, length = ~10	★ WRONG ANSWER 90,000 got 2 expected 100001
•	large1	★ WRONG ANSWER got 2 expected 76541
>	large2	★ WRONG ANSWER got 2 expected 10001

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