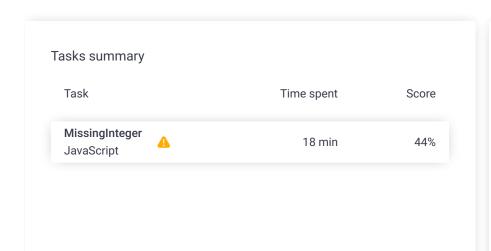
Codility_

Candidate Report: John

Test Name:

Summary Timeline

Check out Codility training tasks





Tasks Details

ledium

1. MissingInteger

Find the smallest positive integer that does not occur in a given sequence.

Task Score

44%

Correctness

Performance

80% 0%

Task description

This is a demo task.

Write a function:

function solution(A);

that, given an array A of N integers, returns the smallest positive integer (greater than 0) that does not occur in A.

For example, given A = [1, 3, 6, 4, 1, 2], the function should return 5.

Given A = [1, 2, 3], the function should return 4.

Given A = [-1, -3], the function should return 1.

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 within the range [-1,000,000..1,000,000].

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Solution

Programming language used: JavaScript

Total time used: 18 minutes

Effective time used: 18 minutes

Notes: not defined yet

Task timeline

02:49:32 03:06:41

```
Code: 03:06:40 UTC, js, final,
                                show code in pop-up
score: 44
1 // you can write to stdout for debugging purpos
2 // console.log('this is a debug message');
4 function solution(A) {
5
       // write your code in JavaScript (Node.js {
6 A.sort();
7 let smallest = 1;
8 for(let i = 0; i < A.length; i++){</pre>
9
       if (A[i] == smallest) // to increase small@
10
                 smallest++;
11
       }
12 return smallest;
13 }
```

Analysis summary

The following issues have been detected: wrong answers.

Analysis

| expand all Example 1 | tests |
|---|---|
| example1 first example test | ✓ OK |
| example2 second example test | ✓ OK |
| example3 third example test | ∨ OK |
| expand all Correctness | s tests |
| extreme_single a single element | ✓ OK |
| simple simple test | ✓ OK |
| extreme_min_max_value minimal and maximal values | ✓ OK |
| positive_only shuffled sequence of 0100 and the 102200 | www.www.www.www.www.www.www.www.www.ww |
| ► negative_only shuffled sequence -1001 | ∨ OK |
| expand all Performanc | e tests |
| medium chaotic sequences length=10005 (w minus) | x WRONG ANSWER got 10 expected 111 |
| large_1 chaotic + sequence 1, 2,, 40000 (without minus) | x WRONG ANSWER got 10 expected 40000 |
| ► large_2 shuffled sequence 1, 2,, 100000 (without minus) | x WRONG ANSWER got 10 expected 100001 |
| ► large_3 chaotic + many -1, 1, 2, 3 (with minu | x WRONG ANSWER s) got 10 expected 10000 |

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