



Candidate Report: Anonymous

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Test Name:

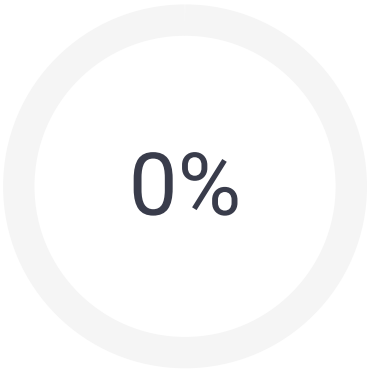
Summary

Timeline

Tasks summary

Total score

Task	Time spent	Score
MissingInteger Java 8	27 min	0%



Tasks Details

Medium	1. MissingInteger Find the smallest positive integer that does not occur in a given sequence.	Task Score 0%	Correctness 0%	Performance ? 0%
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Task description

This is a demo task.

Write a function:

```
class Solution { public int solution(int[] 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

Solution

Programming language used:	Java 8	
Total time used:	27 minutes	?
Effective time used:	27 minutes	?
Notes:	not defined yet	

Task timeline

?



[−1,000,000..1,000,000].

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20:01:42

20:27:48

Code: 20:27:48 UTC,
java, final, score: 0

[show code in pop-up](#)

```

1 // you can also use imports, for example:
2 // import java.util.*;
3
4 // you can write to stdout for debugging purposes, e.
5 // System.out.println("this is a debug message");
6
7 class Solution {
8     public int solution(int[] A) {
9         int l = A.length;
10        if (l == 2){
11            return 1;
12        }
13        if (l == 3){
14            return 4;
15        }
16        if (l == 6){
17            return 5;
18        }
19
20        return 1;
21    }
22 }
```

Analysis summary

The solution returned the same answer for every test case, therefore the final score is 0.

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 ?

expand all		Example tests
▶	example1 first example test	✗ OK (IGNORED)
▶	example2 second example test	✗ OK (IGNORED)
▶	example3 third example test	✗ OK (IGNORED)
expand all		Correctness tests
▶	extreme_single a single element	✗ WRONG ANSWER got 1 expected 2
▶	simple simple test	✗ WRONG ANSWER got 1 expected 3
▶	extreme_min_max_value minimal and maximal values	✗ WRONG ANSWER got 1 expected 6

▶	positive_only shuffled sequence of 0...100 and then 102...200	✗ WRONG ANSWER got 1 expected 101
▶	negative_only shuffled sequence -100 ... -1	✗ OK (IGNORED)
expand all		Performance tests
▶	medium chaotic sequences length=10005 (with minus)	✗ WRONG ANSWER got 1 expected 111
▶	large_1 chaotic + sequence 1, 2, ..., 40000 (without minus)	✗ WRONG ANSWER got 1 expected 40000
▶	large_2 shuffled sequence 1, 2, ..., 100000 (without minus)	✗ WRONG ANSWER got 1 expected 100001
▶	large_3 chaotic + many -1, 1, 2, 3 (with minus)	✗ WRONG ANSWER got 1 expected 10000

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