



Candidate Report: Anonymous

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Test Name:

Summary   Timeline   Feedback

Tasks summary

Task	Time spent	Score
PermMissingElem JavaScript	2 min	10%

Total score



Tasks Details

Easy	1. <b>PermMissingElem</b>	Task Score	Correctness	Performance ?
	Find the missing element in a given permutation.	10%	20%	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.

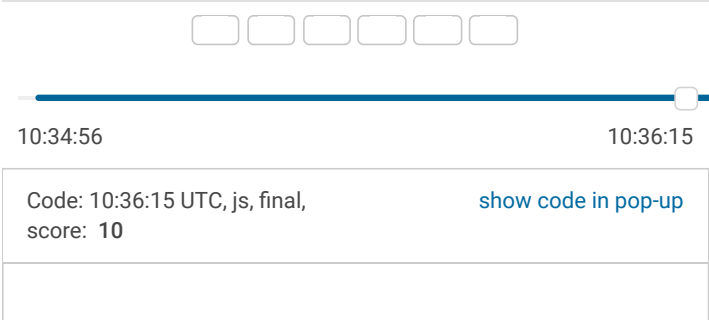
Write an **efficient** algorithm for the following assumptions:

- 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:	2 minutes	?
Effective time used:	2 minutes	?
Notes:	not defined yet	

Task timeline ?



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

```
1 // you can write to stdout for debugging purposes, e.g
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     A.sort();
7     for (let i=0; i<A.length; i++) {
8         if (A[i] != i+1) {
9             return i+1;
10        }
11    }
12 }
```

Analysis summary

The following issues have been detected: wrong answers, runtime errors.

For example, for the input [ ] the solution terminated unexpectedly.

Analysis ?

expand all		Example tests
▶	example example test	✓ OK
expand all		Correctness tests
▶	empty_and_single empty list and single element	✗ RUNTIME ERROR tested program terminated with exit code 1
▶	missing_first_or_last the first or the last element is missing	✗ RUNTIME ERROR tested program terminated with exit code 1
▶	single single element	✗ RUNTIME ERROR tested program terminated with exit code 1
▶	double two elements	✗ RUNTIME ERROR tested program terminated with exit code 1
▶	simple simple test	✓ OK
expand all		Performance tests
▶	medium1 medium test, length = ~10,000	✗ WRONG ANSWER got 2 expected 456
▶	medium2 medium test, length = ~10,000	✗ WRONG ANSWER got 2 expected 9998
▶	large_range range sequence, length = ~100,000	✗ WRONG ANSWER got 2 expected 100001
▶	large1 large test, length = ~100,000	✗ WRONG ANSWER got 2 expected 76541
▶	large2 large test, length = ~100,000	✗ WRONG ANSWER got 2 expected 10001

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