Correctness

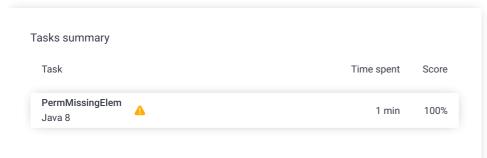
Codility_

CodeCheck Report: trainingJ95HWY-P65

Test Name:

Summary Timeline

Check out Codility training tasks



Task Score



Performance

Tasks Details

1. PermMissingElem

Find the missing element in a given permutation.

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:

class Solution { public int solution(int[] 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

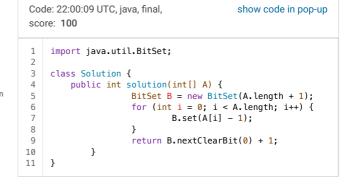
the function should return 4, as it is the missing element.

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

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Solution Programming language used: Java 8 Total time used: 1 minutes 3 Effective time used: 1 minutes 4 Notes: not defined yet



Analysis summary

21:59:12

The solution obtained perfect score.

22:00:09

Analysis

Detected time complexity:

O(N) or O(N * log(N))

collap	se all	E	xample tests		
V				,	OK
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1.	0.004 s	OK			
collap	se all	Co	rrectness tests	;	
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	empty list	and single element			
1.	0.004 s	OK			
2.	0.004 s	OK			
•	_	_first_or_last		1	OK
		r the last element is r	nissing		
1.	0.004 s	OK			
2.	0.004 s	OK			
▼	single		•	1	OK
	single ele				
1.	0.004 s	OK			
2.	0.004 s	OK			
•	double two eleme	onto	·	1	OK
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2.	0.004 s	OK			
3.	0.004 s	OK			
•	simple tes	st	•		OK
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collap	medium		formance tests	_	OK
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1.	0.032 s	ОК			
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1.	0.312 s	ОК			
2.	0.160 s	ОК			
3.	0.160 s	ОК			
•	large1			,	ОК
	large test,	, length = ~100,000			
1.	0.320 s	ОК			
•	large2			,	ОК
	large test,	, length = ~100,000			
1.	0.192 s	ОК			