



Demo ticket

Session

ID: demoPF2GAW-EDR Time limit: 120 min.

Status: closed

Created on: 2014-04-23 17:36 UTC Started on: 2014-04-23 17:36 UTC Finished on: 2014-04-23 18:06 UTC

score: 100 of 100

Tasks in test

1 | {} PermMissingElem

Correctness

100%

Performance 100%

Task score

100%

Test score
?
1000/0
100 out of 100 points

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1. PermMissingElem

Find the missing element in a given permutation.

Task description Solu

A zero-indexed 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:

def solution(A)

that, given a zero-indexed array A, returns the value of the missing

For example, given array A such that:

A[0] = 2

A[1] = 3

A[2] = 1

A[3] = 5

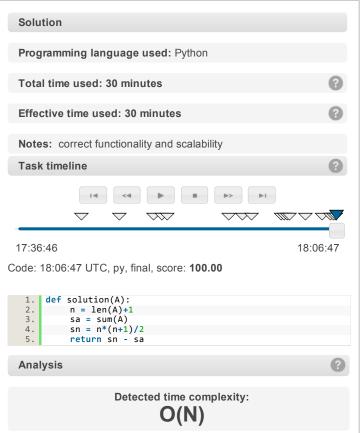
the function should return 4, as it is the missing element. Assume that:

- 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)].

Complexity:

- expected worst-case time complexity is O(N);
- expected worst-case space complexity is O(1), beyond input storage (not counting the storage required for input arguments).

Elements of input arrays can be modified.



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test	time	result
Example test	ts	
example example test	0.050 s.	ок
Correctness te	sts	
empty_and_single empty list and single element	0.050 s.	ок
missing_first_or_last the first or the last element is missing	0.050 s.	ок
single single element	0.050 s.	ок
double two elements	0.050 s.	ок
simple simple test	0.050 s.	ок
Performance to	ests	
medium1 medium test, length = ~10,000	0.060 s.	ок
medium2 medium test, length = ~10,000	0.060 s.	ок
large_range range sequence, length = ~100,000	0.130 s.	ок
large1 large test, length = ~100,000	0.210 s.	ок
large2 large test, length = ~100,000	0.140 s.	ок

Training center

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