3/17/2014 Codility

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Demo ticket

Session

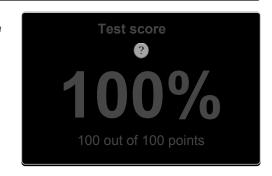
ID: demoEY7CH8-5WH Time limit: 120 min.

Status: closed

Created on: 2014-03-17 16:01 UTC Started on: 2014-03-17 16:01 UTC Finished on: 2014-03-17 16:06 UTC

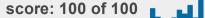
Tasks in test

Task score



1. PermMissingElem

Find the missing element in a given permutation.





Task description

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 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. Assume that:

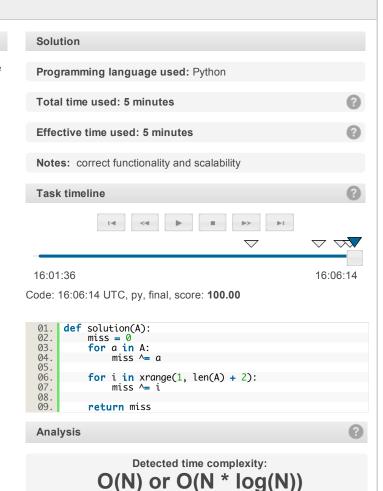
- N is an integer within the range [0..100,000];
- · the elements of A are all distinct;
- · each element of array A is an integer within the range [1..(N + 1)].

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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Training center

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