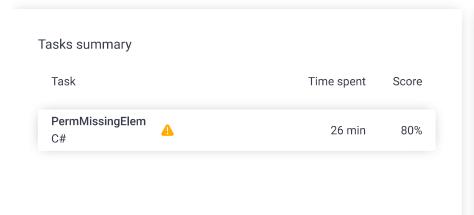
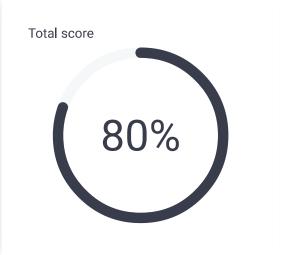
Codility_

CodeCheck Report: trainingT3ZVDR-B8X

Test Name:

Al Assistant Transcript Summary Timeline





Check out Codility training tasks

Tasks Details

1. PermMissingElem Find the missing element in a given permutation.

Task Score

80%

Correctness

Performance

100%

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:

Solution

Task timeline

Programming language used: C# Total time used: 26 minutes Effective time used: 26 minutes Notes: not defined yet



16:07:47 16:33:34

- 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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Code: 16:33:34 UTC, cs, final, show code in pop-up score: 80

```
1
     class Solution {
2
         public int solution(int[] A) {
3
             int N = A.Length;
4
             int totalSum = (N + 1) * (N + 2) / 2;
 5
 6
7
             int arraySum = 0;
             foreach (int num in A) {
8
                 arraySum += num;
10
11
             int missingElement = totalSum - arraySum;
12
13
14
             return missingElement;
         }
15
16
     }
```

Analysis summary

The following issues have been detected: wrong answers.

Analysis

Detected time complexity: O(N) or O(N + log(N))

expand all Example tests				
>	example example test	Liample test		ОК
expand all Correctness tests				3
	empty_and_sing		✓	OK
	missing_first_or_ the first or the last el		✓	OK
	single single element		✓	OK
-	double two elements		✓	OK
	simple simple test		✓	OK
expand all Performance to			sts	6
-	medium1 medium test, length	= ~10,000	✓	OK
-	medium2 medium test, length	= ~10,000	✓	OK
	large_range range sequence, lenç	gth = ~100,000	X	WRONG ANSWER got -2147483647 expected 1
	large1 large test, length = ~	100,000	✓	OK

► large2

large test, length = ~100,000

X WRONG ANSWER

got -2147473647 expected 10001