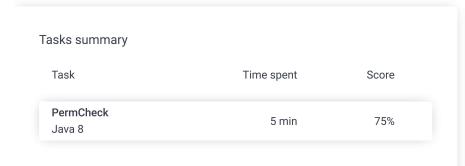
Codility_

Candidate Report: trainingFWC6D6-7JS

Check out Codility training tasks

Test Name:

Summary Review (0) Timeline





Tasks Details

1. PermCheckTask ScoreCorrectnessPerformanceCheck whether array A is a permutation.75%83%66%

Task description

A non-empty array A consisting of N integers is given.

A *permutation* is a sequence containing each element from 1 to N once, and only once.

For example, array A such that:

A[0] = 4

A[1] = 1

A[2] = 3

A[3] = 2

is a permutation, but array A such that:

A[0] = 4

A[1] = 1

A[2] = 3

is not a permutation, because value 2 is missing.

The goal is to check whether array A is a permutation.

Write a function:

class Solution { public int solution(int[] A); }

that, given an array A, returns 1 if array A is a permutation and 0 if it is not.

For example, given array A such that:

A[0] = 4

A[1] = 1

A[2] = 3

A[3] =

Solution

Programming language used: Java 8

Total time used: 5 minutes

Effective time used: 5 minutes

Notes: not defined yet

Task timeline

20:04:15 20:08:51

Code: 20:08:51 UTC, java, final, show code in pop-up score: 75

1 // you can also use imports, for example:
2 // import java.util.*;
3 // you can write to stdout for debugging purposes, e.g.
5 // System.out.println("this is a debug message");
6 class Solution {
 public int solution(int[] A) {
 // write your code in Java SE 8

25.10.2020

the function should return 1.

Given array A such that:

A[0] = 4 A[1] = 1A[2] = 3

the function should return 0.

Write an efficient algorithm for the following assumptions:

- N is an integer within the range [1..100,000];
- each element of array A is an integer within the range [1..1,000,000,000].

Copyright 2009–2020 by Codility Limited. All Rights Reserved. Unauthorized copying, publication or disclosure prohibited.

Test results - Codility

```
double totalSum = 0, checkSum = 0, length =A.lengt
             checkSum = (length*(length+1))/2;
11
12
             for(Integer i : A)
13
                 totalSum +=i;
             if(totalSum == checkSum)
14
15
                 return 1;
16
             else
                 return 0;
17
18
         }
19
     }
```

Analysis summary

The following issues have been detected: wrong answers.

For example, for the input [1, 4, 1] the solution returned a wrong answer (got 1 expected 0).

Analysis 👩

expan	nd all Example tests	S	
>	example1 the first example test		ОК
•	example 2 the second example test		ОК
expan	extreme_min_max single element with minimal/maximal value		ОК
•	single single element	✓	OK
•	double two elements	✓	ОК
•	antiSum1 total sum is correct, but it is not a permutation, N <= 10	X	WRONG ANSWER got 1 expected 0
•	small_permutation permutation + one element occurs twice, N = ~100	✓	ок
•	permutations_of_ranges permutations of sets like [2100] for which the anwsers should be false Performance te		ОК
expan	medium_permutation permutation + few elements occur twice, N = ~10,000		ОК
•	antiSum2 total sum is correct, but it is not a permutation, N = ~100,000	X	WRONG ANSWER got 1 expected 0
•	large_not_permutation permutation + one element occurs three times, N = ~100,000	✓	OK
•	large_range sequence 1, 2,, N, N = ~100,000	√	OK
•	extreme_values all the same values, N = ~100,000	X	WRONG ANSWER got 1 expected 0
•	various_permutations all sequences are permutations	✓	OK

The PDF version of this report that may be downloaded on top of this site may contain sensitive data including personal information. For security purposes, we recommend you remove it from your system once reviewed.