Test results - Codility 20/06/16 22:17





Training ticket

Session

ID: trainingVUC8AJ-V2F Time limit: 120 min.

Status: closed

Created on: 2016-06-20 20:07 UTC Started on: 2016-06-20 20:07 UTC Finished on: 2016-06-20 20:08 UTC

Tasks in test

:= PermCheck Submitted in: Java

100%

Performance 100%

Task score

100%

Test score 2

100 out of 100 points

score: 100 of 100

1. PermCheck Check whether array A is a permutation. Solution Task description A non-empty zero-indexed array A consisting of N integers is given. Programming language used: Java A permutation is a sequence containing each element from 1 to N once, Total time used: 1 minutes and only once. For example, array A such that: Effective time used: 1 minutes A[0] = 4Notes: not defined yet A[1] = 1A[2] = 3A[3] = 2Task timeline is a permutation, but array A such that: A[0] = 4A[1] = 1A[2] = 3is not a permutation, because value 2 is missing. 20:07:24 20:08:05 The goal is to check whether array A is a permutation. Code: 20:08:04 UTC, java, final, show code in pop-up score: 100 Write a function: class Solution { public int solution(int[] A); } import java.util.IntSummaryStatistics; import java.util.stream.IntStream; that, given a zero-indexed array A, returns 1 if array A is a permutation and 0 if it is not. 5 private static final int NOT_PERMUTATION = 0; For example, given array A such that: 6 7 private static final int PERMUTATION = 1; 8 A[0] = 4public int solution(int[] A) { IntSummaryStatistics stats = IntStream.of(A).di A[1] = 110 return containsAll(stats.getCount(), stats.getN A[2] = 311 A[3] = 212 the function should return 1. 13 14 return distinctElements == inputElements; Given array A such that: 15 16 A[0] = 417 private boolean containsAll(long distinctElements,

Test results - Codility 20/06/16 22:17

A[1] = 1A[2] = 3

the function should return 0.

Assume that:

- 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].

Complexity:

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

Elements of input arrays can be modified.

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