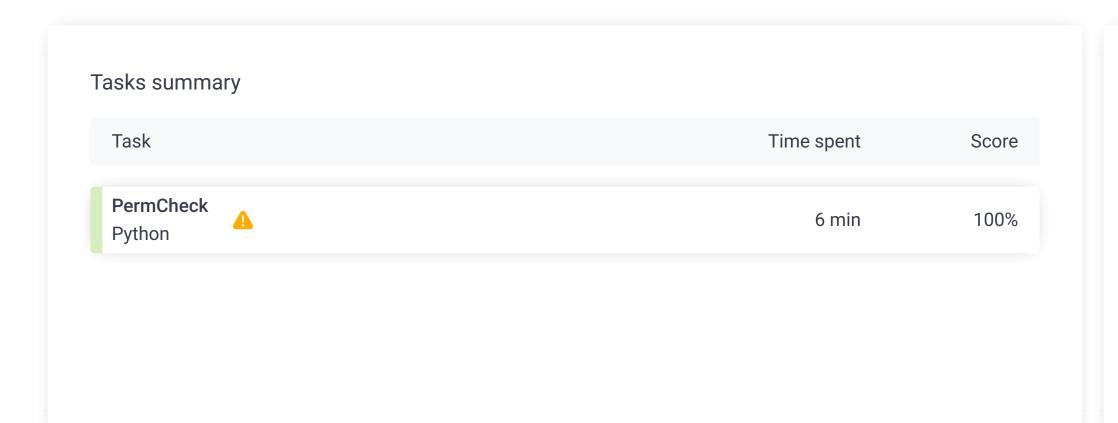
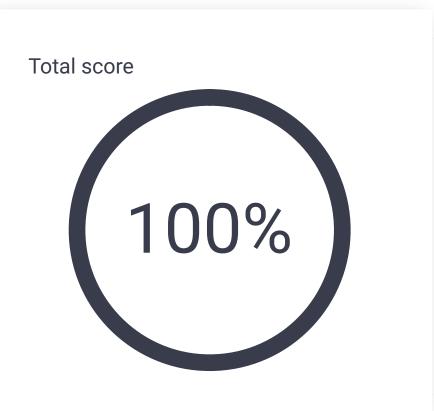
3

CodeCheck Report: trainingN96ZY2-TZN

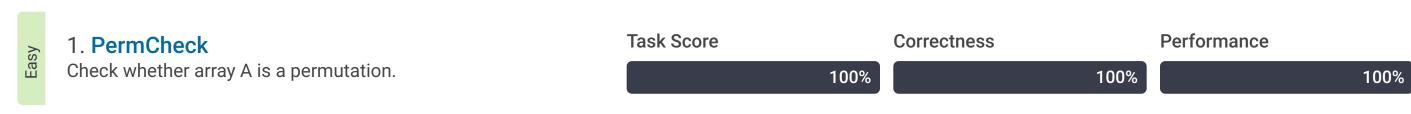
Test Name:

Summary Timeline





Tasks Details



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] = 3A[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:

def solution(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] = 3A[3] = 2

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].

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Solution



Task timeline



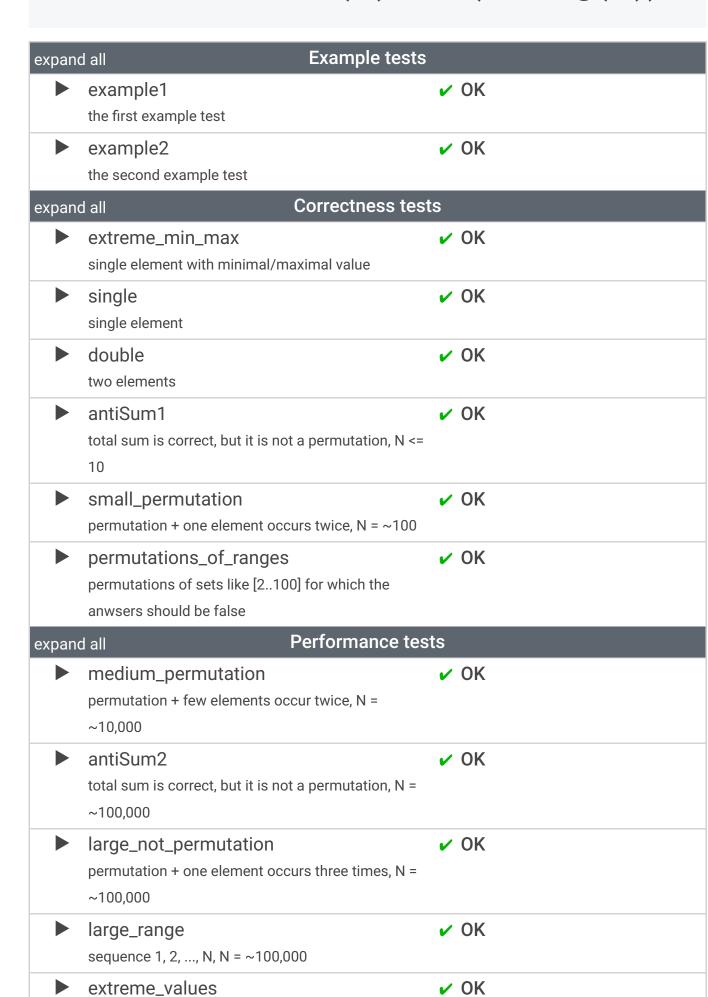
Code: 19:02:38 UTC, py, final, score: show code in pop-up 100	
1	# you can write to stdout for debugging purposes, e.g.
2 3	<pre># print("this is a debug message")</pre>
4	<pre>def solution(A):</pre>
5	# write your code in Python 3.6
6	if len(A) == 1:
7	if A[0] == 1:
8	return 1
9	else:
10	return 0
11	<pre>elif max(A) > len(A):</pre>
12	return 0
13	else:
14	set_ = set(A)
15	B = [i+1 for i in range(len(A))]
16	set1 = set(B)
17	<pre>if set_ == set1:</pre>
18	return 1
19	else:
20	return 0

Analysis summary

The solution obtained perfect score.

Analysis

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



✓ OK

all the same values, $N = \sim 100,000$

all sequences are permutations

various_permutations