Codility_

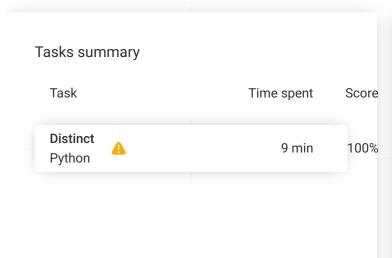
CodeCheck Report: trainingNF6TE4-Q5P

Test Name:

Check out Codility training tasks

100%

Timeline Summary





Tasks Details

1. **Distinct**

Compute **Task Score** Correctness Performance number of 100% 100% distinct values in an array.

Task description

Write a function

def solution(A)

that, given an array A consisting of N integers, returns the number of distinct values in array A.

For example, given array A consisting of six elements such that:

A[0] = 2A[1] = 1A[2] = 1

A[3] = 2A[4] = 3A[5] = 1 Solution

Programming language used: Python

Total time used: 9 minutes

Effective time used: 9 minutes

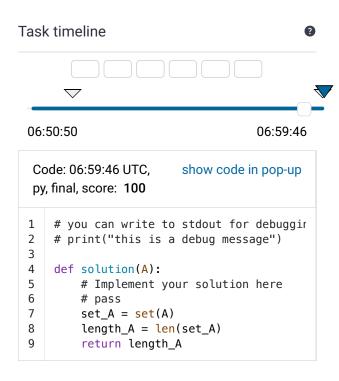
Notes: not defined yet

1 von 3 18.07.23, 09:00 the function should return 3, because there are 3 distinct values appearing in array A, namely 1, 2 and 3.

Write an **efficient** algorithm for the following assumptions:

- N is an integer within the range [0..100,000];
- each element of array A is an integer within the range [-1,000,000..1,000,000].

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Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity:

O(N*log(N)) or O(N)

expand all Example tes	sts
▶ example1	✓
example test, positive answer	OK
expand all Correctness t	ests
extreme_empty	✓
empty sequence	OK
extreme_single	✓
sequence of one element	ок
extreme_two_elems	V
sequence of three distinct elements	ОК
extreme_one_value	✓
sequence of 10 equal elements	ок
extreme_negative	V
sequence of negative elements, length=5	ОК
extreme_big_values	V

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	uence with big values, OF	•
>	medium1 chaotic sequence of value sfrom [01K], length=100	ok
•	medium2 chaotic sequence of value sfrom [01K], length=200	ОК
>	medium3 chaotic sequence of values from [010], length=200 and all Performance	OK tasts
exp		
>	large1 chaotic sequence of values from [0100K], length=10K	v OK
>	large1 chaotic sequence of values	<i>V</i>

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