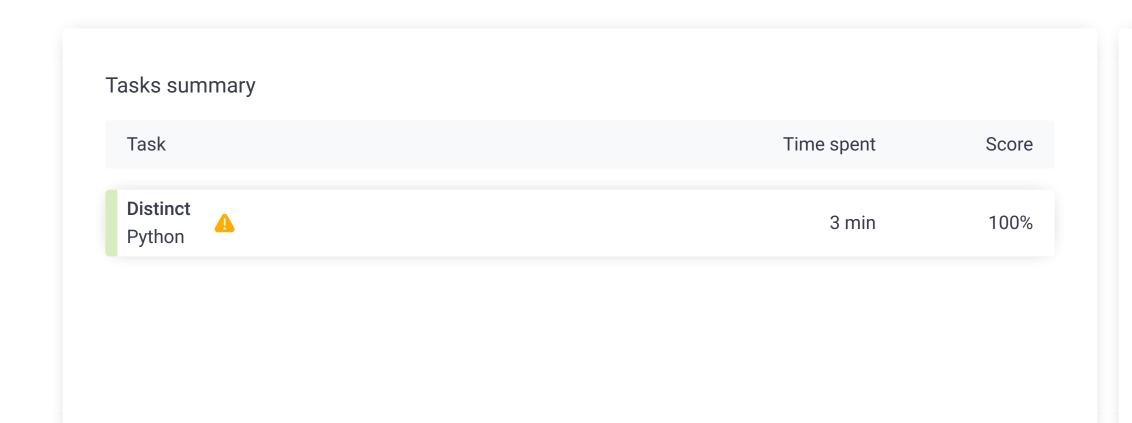
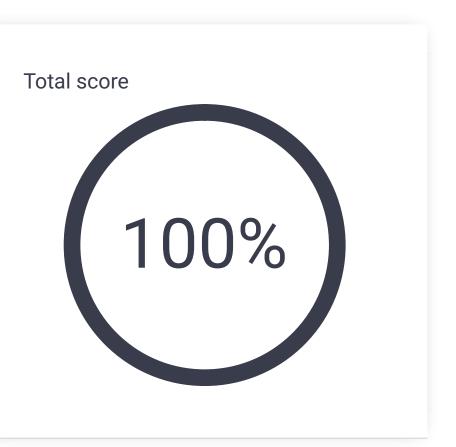
CodeCheck Report: trainingAK9TZR-TVW

Test Name:

Summary Timeline





Tasks Details



Distinct
 Compute number of 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] = 2 A[1] = 1 A[2] = 1

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

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:

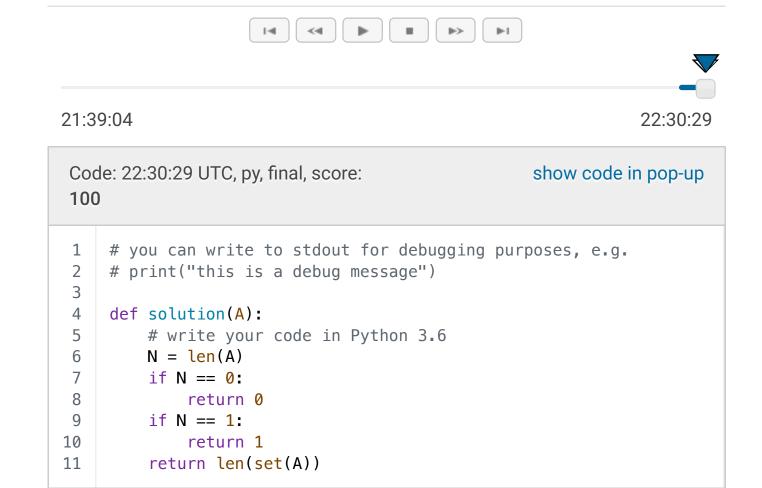
- N is an integer within the range [0..100,000];
- each element of array A is an integer within the range [-1,000,000..1,000,000].

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Solution



Task timeline



Analysis summary

length=100K

The solution obtained perfect score.

Analysis

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

xpand	l all Example tests		
	example1	~	OK
	example test, positive answer		
cpand	all Correctness test	s	
	extreme_empty	~	OK
	empty sequence		
	extreme_single	~	OK
	sequence of one element		
	extreme_two_elems	~	OK
	sequence of three distinct elements		
	extreme_one_value	~	OK
	sequence of 10 equal elements		
	extreme_negative	•	OK
	sequence of negative elements, length=5		
	extreme_big_values	~	OK
	sequence with big values, length=5		
	medium1	~	OK
	chaotic sequence of value sfrom [01K], length=100		
	medium2	•	OK
	chaotic sequence of value sfrom [01K], length=200		
	medium3	•	OK
	chaotic sequence of values from [010], length=200		
cpand	all Performance tes	ts	
	large1	~	OK
	chaotic sequence of values from [0100K],		
	length=10K		
	large_random1	~	OK
	chaotic sequence of values from [-1M1M],		
	length=100K		
	large_random2	~	OK
	another chaotic sequence of values from [-1M1M],		