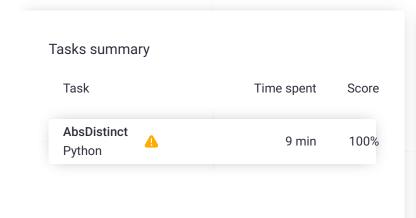
Codility_

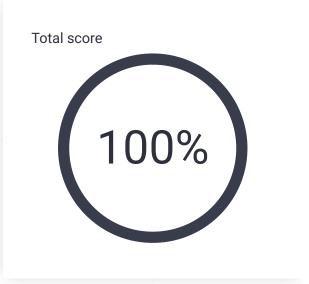
CodeCheck Report: trainingQUPTXR-93U

Test Name:

Check out Codility training tasks

Summary Timeline





Tasks Details

1.

AbsDistinct

Compute number of distinct absolute values of sorted array elements.

Task Score

Correctness

100%

Performance

100%

100%

Task description

A non-empty array A consisting of N numbers is given. The array is sorted in non-decreasing order. The absolute distinct count of this array is the number of distinct absolute values among the elements of the array.

For example, consider array A such that:

A[0] = -5

A[1] = -3

A[2] = -1

 $A[3] = \emptyset$

A[4] = 3

Solution

Programming language used: Python

Total time used: 9 minutes

Effective time used: 9 minutes 2

Notes: not defined yet

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$$A[5] = 6$$

The absolute distinct count of this array is 5, because there are 5 distinct absolute values among the elements of this array, namely 0, 1, 3, 5 and 6.

Write a function:

that, given a non-empty array A consisting of N numbers, returns absolute distinct count of array A.

For example, given array A such that:

A[0] = -5

A[1] = -3

A[2] = -1

 $A[3] = \emptyset$

A[4] = 3

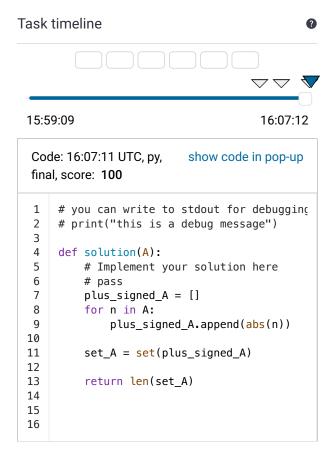
A[5] = 6

the function should return 5, as explained above.

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 [-2,147,483,648..2,147,483,647];
- array A is sorted in non-decreasing order.

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Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity:

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

expand all	Example	etests	
example example test		∠ OK	
expand all	Correctne	ss tests	
one_elemer	nt	✓ OK	
▶ two_elemer	nts	✓ OK	
same_elem	ents	✓ OK	
simple		✓ OK	
simple_no_:	zero	✓ OK	
simple_no_s	same	✓ OK	
simple_no_i	negative	✓ OK	
simple_no_p	positive	✓ OK	
arith_overlo	W	✓ OK	

2 von 3

•	medium_chaotic1	V	ОК	
•	medium_chaotic2	•	ОК	
expand all Performance tests				
>	long_sequence_no_negativ e	~	ОК	
>	long_sequence_no_positiv	✓	ОК	
>	long_sequence	~	ОК	

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