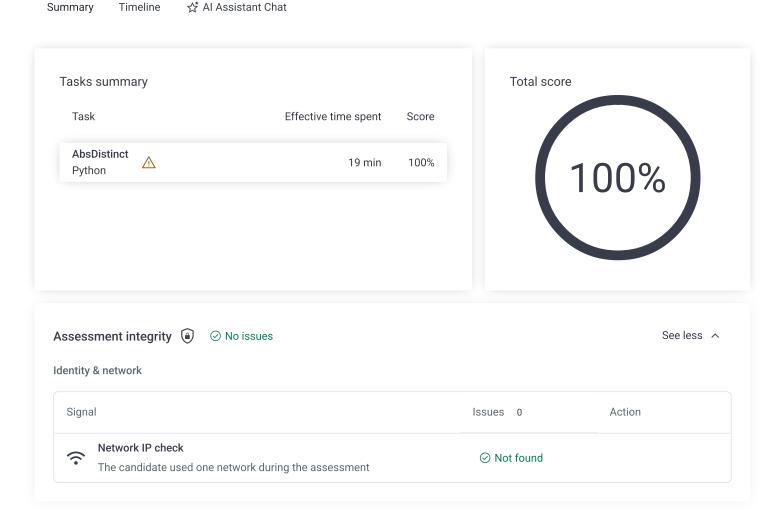
Codility_

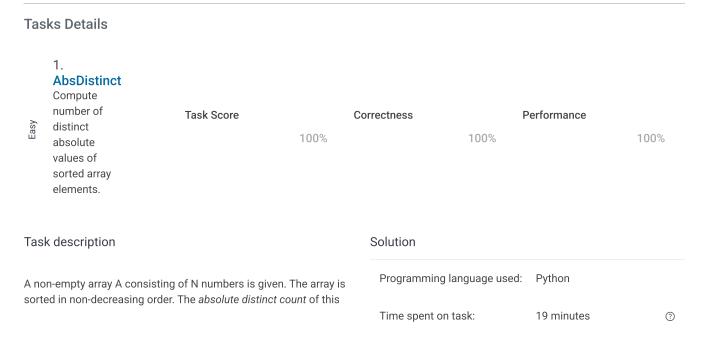
Screen Report: trainingJPYJBN-EKP

Test Name:

☆ Al Assistant Chat Timeline

Check out Codility training tasks





Test results - Codility

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] = 0

A[4] = 3

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] = 0

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.

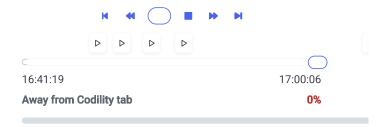
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Notes: not defined yet

Task timeline Beta

?

```
Code: 17:00:06 UTC, py, final,
                                       show code in pop-up
score: 100
 1
     def solution(A):
 2
       c = 1
                                               #start with co
                                               #initialize my
 3
       my_max = max(abs(A[0]), abs(A[-1]))
 4
       index_head = 0
                                                #Two point, 1
       index_tail = len(A)-1
 5
       while index_head <= index_tail:</pre>
                                               #Take absolute
 7
         head = abs(A[index_head])
 8
         if head == my max:
 9
           index_head += 1
           continue
10
11
         tail = abs(A[index_tail])
                                              #Take absolute
12
13
         if tail == my_max:
14
           index_tail -= 1
15
16
           continue
17
         if head >= tail:
18
           my_max = head
19
           index_head += 1
20
         else:
           my_max = tail
21
22
           index_tail -= 1
23
24
         c += 1
25
       return c
26
27
28
```



Analysis summary

The solution obtained perfect score.

Analysis

Detected time complexity:

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

expand all	Example tests	
example example test	√ OK	
expand all	Correctness tests	
▶ one_element	✓ OK	

Test results - Codility

► two_elements	✓ OK	
► same_elements	✓ OK	
▶ simple	✓ OK	
► simple_no_zero	✓ OK	
► simple_no_same	✓ OK	
► simple_no_negative	✓ OK	
▶ simple_no_positive	✓ OK	
► arith_overlow	✓ OK	
► medium_chaotic1	✓ OK	
► medium_chaotic2	✓ OK	
expand all Performance tests		
► long_sequence_no_negative	✓ OK	
► long_sequence_no_positive	✓ OK	
► long_sequence	✓ OK	