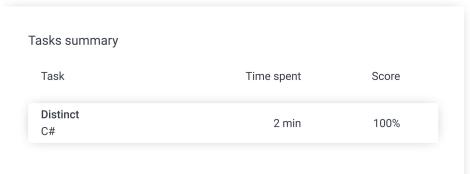
Codility_

Candidate Report: training2VKJMY-JT6

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Test Name:

Feedback Summary Timeline





Tasks Details

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

Task description

Write a function

class Solution { public int solution(int[] 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:

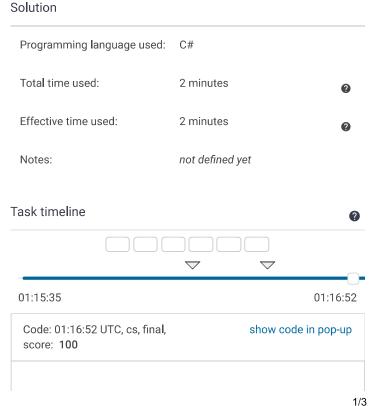
$$A[0] = 2$$
 $A[1] = 1$ $A[2] = 1$
 $A[3] = 2$ $A[4] = 3$ $A[5] = 1$

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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100%

```
using System;
     using System.Linq;
3
     {\bf using} \ {\bf System. Collections. Generic;}
     // you can also use other imports, for example:
     // using System.Collections.Generic;
     // you can write to stdout for debugging purposes, e.g.
     // Console.WriteLine("this is a debug message");
8
10
     class Solution {
           public int solution(int[] A)
11
                 List<int> lst = new List<int>();
13
14
                 if (A == null || A.Length == 0)
15
                      return 0;
16
17
18
                 return A.ToList().Distinct().Count(); ;
19
20
             }
21
22
     }
```

Analysis summary

The solution obtained perfect score.

Analysis 👩

Detected time complexity:

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

expar	nd all Exam	ple tests
•	example1 example test, positive answer	√ OK
expar	nd all Correct	ness tests
>	extreme_empty empty sequence	√ OK
>	extreme_single sequence of one element	√ OK
•	extreme_two_elems sequence of three distinct elements	√ OK s
•	extreme_one_value sequence of 10 equal elements	√ OK
•	extreme_negative sequence of negative elements, len	✓ OK agth=5
•	extreme_big_values sequence with big values, length=5	√ OK
•	medium1 chaotic sequence of value sfrom [0 length=100	√ OK 1K],
>	medium2 chaotic sequence of value sfrom [0 length=200	√ OK 1K],
•	medium3 chaotic sequence of values from [0 length=200	✓ OK 10],

expar	nd all Performance te	ests
•	large1 chaotic sequence of values from [0100K], length=10K	√ OK
•	large_random1 chaotic sequence of values from [-1M1M], length=100K	✓ OK
•	large_random2 another chaotic sequence of values from [-1M1M], length=100K	✓ OK

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