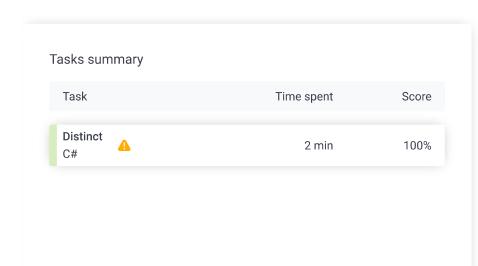
# Codility\_

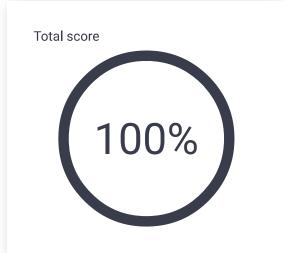
## CodeCheck Report: trainingSUE4SX-V8X

Test Name:

Summary

Timeline





Check out Codility training tasks

#### **Tasks Details**

Easy C

#### 1. Distinct

Compute number of distinct values in an array.



Correctness 100%

final, score: 100

## Performance

100%

#### 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:

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

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

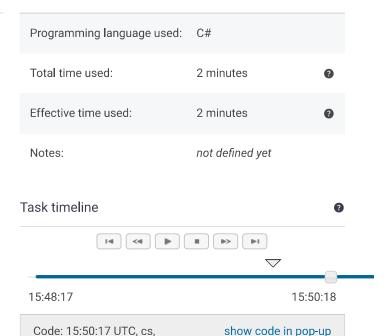
the function should return 3, because there are 3 distinct values appearing in array A, namely 1, 2 and 3.

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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#### Solution



```
using System;
2
     using System.Linq;
3
4
5
     * 6.1 - Distinct
 6
     * Paulo Santos
7
     * 07.Dec.2022
8
9
    class Solution {
10
      public int solution(int[] A) {
           return A.Distinct().Count();
11
12
13 }
```

## Analysis summary

The solution obtained perfect score.

## Analysis

ехра	nd all	Example to	ests_	
•	example1 example test, positive a	answer	✓	ОК
ехра	nd all C	orrectness	tests	;
•	extreme_empty empty sequence		✓	OK
•	extreme_single sequence of one eleme	ent	✓	OK
•	extreme_two_elem sequence of three disti		_	ОК
<b>•</b>	extreme_one_value sequence of 10 equal e		✓	OK
•	extreme_negative sequence of negative e length=5	elements,	✓	ОК
<b>&gt;</b>	extreme_big_value		✓	OK
<b>&gt;</b>	medium1 chaotic sequence of va [01K], length=100	alue sfrom	✓	ОК
<b>&gt;</b>	medium2 chaotic sequence of va [01K], length=200	alue sfrom	✓	OK
•	medium3 chaotic sequence of va [010], length=200	alues from	✓	ОК
expa	nd all Po	erformance	e tests	S

•	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