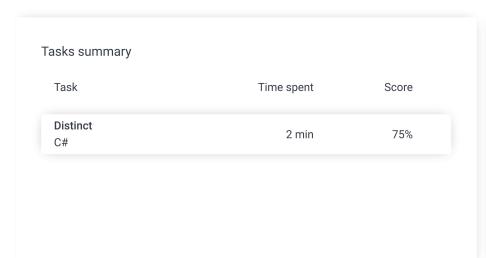
# Codility\_

## Candidate Report: training8XJ58H-H3R

Check out Codility training tasks

Test Name:

Summary Timeline Feedback





### **Tasks Details**

1. Distinct Task Score Correctness Performance Compute number of distinct values in an 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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#### Solution

Programming language used: C#

Total time used: 2 minutes

Effective time used: 2 minutes

Notes: not defined yet

Task timeline

18:55:27 18:56:39

Code: 18:56:39 UTC, cs, final, show code in pop-up score: 75

```
using System;
     using System.Linq;
3
     using 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
9
     class Solution {
10
        public int solution(int[] A)
11
12
13
                 List<int> lst = new List<int>();
                 if (A == null || A.Length == 0)
14
15
                     return 0;
                 if (A.Length == 1)
16
17
                     return 1;
18
                 lst.Add(A[0]);
                 int len = A.Length;
19
20
                 for (int i = 1;i < len; i++ )</pre>
21
22
                     if (!lst.Contains(A[i]))
23
                         lst.Add(A[i]);
24
25
                 }
26
                 return lst.Count;
             }
27
28
    }
```

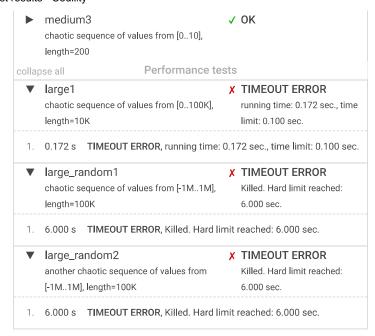
### Analysis summary

The following issues have been detected: timeout errors.

## Analysis ?

# Detected time complexity: O(N\*\*2)

xpan	nd all <b>Exampl</b>	e tests
<b>&gt;</b>	example1 example test, positive answer	√ OK
xpan	nd all Correctne	ess tests
•	extreme_empty empty sequence	√ OK
•	extreme_single sequence of one element	√ OK
•	extreme_two_elems sequence of three distinct elements	√ OK
•	extreme_one_value sequence of 10 equal elements	√ OK
•	extreme_negative sequence of negative elements, lengt	<b>√ OK</b> h=5
•	extreme_big_values sequence with big values, length=5	√ OK
•	medium1 chaotic sequence of value sfrom [01 length=100	<b>√ 0K</b> K],
•	medium2 chaotic sequence of value sfrom [01 length=200	<b>√ OK</b> K],



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