Codility_

Candidate Report: trainingZ5QXSK-SYQ

Test Name:

Summary Timeline

Mail Status: Not Applicable

Finished: 2021-03-05 18:41 UTC

Started: 2021-03-05 18:09 UTC

Invitation Created: 2021-03-05 18:08 UTC

Tasks Details

asy

1. OddOccurrencesInArray

Find value that occurs in odd number of elements.

Task Score

Correctness

Performance

Check out Codility training tasks

100% 25%

Task description

A non-empty array A consisting of N integers is given. The array contains an odd number of elements, and each element of the array can be paired with another element that has the same value, except for one element that is left unpaired.

For example, in array A such that:

$$A[0] = 9$$
 $A[1] = 3$ $A[2] = 9$
 $A[3] = 3$ $A[4] = 9$ $A[5] = 7$
 $A[6] = 9$

- the elements at indexes 0 and 2 have value 9,
- the elements at indexes 1 and 3 have value 3,
- the elements at indexes 4 and 6 have value 9,
- the element at index 5 has value 7 and is unpaired.

Write a function:

class Solution { public int solution(int[] A); }

that, given an array A consisting of N integers fulfilling the above conditions, returns the value of the unpaired element.

For example, given array A such that:

$$A[0] = 9$$
 $A[1] = 3$ $A[2] = 9$
 $A[3] = 3$ $A[4] = 9$ $A[5] = 7$
 $A[6] = 9$

the function should return 7, as explained in the example above.

Write an efficient algorithm for the following assumptions:

- N is an odd integer within the range [1..1,000,000];
- each element of array A is an integer within the range [1..1,000,000,000];
- all but one of the values in A occur an even number of times.

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Solution

66%

```
Programming language used: Java 8

Total time used: 33 minutes

Effective time used: 33 minutes

Notes: not defined yet
```

Task timeline



18:09:01 18:41:23

Code: 18:41:22 UTC, java, final, show code in pop-up score: 66

```
// you can also use imports, for example:
// import java.util.*;
        // you can write to stdout for debugging purposes, e.g.
// System.out.println("this is a debug message");
        class Solution {
   public int solution(int[] A) {
                     int l=A.length;
                     int i,j,s,t=0;
int[] B=new int[1];
for(i=0;i<1;i++){</pre>
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                           B[i]=0;
                     for(i=0;i<l-1;i++){
                            s=0;
for(j=i+1;j<l;j++){
                                  if(A[i]==A[j] && B[i]==B[j]){
    B[j]=1;
                                        B[i]=1;
                                 }
                      for(i=0;i<1;i++){
                           if(B[i]==0){
                                  t= A[i];
31
32
                     // write your code in Java SE 8
33
34
        }
```

Analysis summary

The following issues have been detected: timeout errors.

Analysis

Detected time complexity: O(N**2)

expand all Example tests

exam examp		K
expan	d all Correctness te	sts
٠	simple1 simple test n=5	√ OK
•	simple2 simple test n=11	√ OK
>	extreme_single_item [42]	√ OK
•	small1 small random test n=201	√ OK
•	small2 small random test n=601	√ OK
expan	l all Performance te	sts
٠	medium1 medium random test n=2,001	✓ OK
•	medium2 medium random test n=100,003	X TIMEOUT ERROR Killed. Hard limit reached: 7.000 sec.
1.	7.000 s TIMEOUT ERROR, Killed. Hard limit reached: 7.000 sec.	
•	big1 big random test n=999,999, multiple repetitions	X TIMEOUT ERROR Killed. Hard limit reached: 14.000 sec.
1.	14.000 s TIMEOUT ERROR, Killed. Hard limit reached: 14.000 sec.	
•	big2 big random test n=999,999	X TIMEOUT ERROR Killed. Hard limit reached: 19.000 sec.

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