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Training ticket

Session

ID: trainingYCMRNH-WKS Time limit: 120 min

Status: closed

Created on: 2016-04-17 04:50 UTC Started on: 2016-04-17 04:50 UTC Finished on: 2016-04-17 04:54 UTC

Tasks in test

:= OddOccurrencesInArray Submitted in: Java

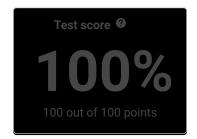
Correctness

100%

Performance 100%

Task score

100%



score: 100 of 100

1. OddOccurrencesInArray

Find value that occurs in odd number of elements.

Task description

A non-empty zero-indexed 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:

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

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

Assume that:

- 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.

Complexity:

- · expected worst-case time complexity is O(N);
- expected worst-case space complexity is O(1), beyond input storage (not counting the storage required for input arguments).

Elements of input arrays can be modified.

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Solution

Programming language used: Java

Total time used: 5 minutes

Effective time used: 5 minutes

Notes: not defined yet

Task timeline

04:50:17

28



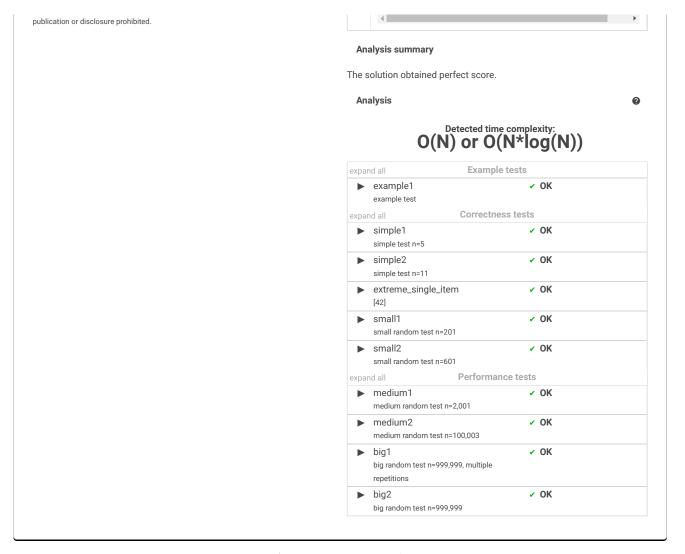
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Code: 04:54:48 UTC, java, final,

show code in pop-up

```
// you can also use imports, for example:
   import java.util.Hashtable;
3
    // you can write to stdout for debugging purposes, e.g
   // System.out.println("this is a debug message");
       public int solution(int[] A) {
```

```
8
               Hashtable<Integer, Integer> table = new Hashtal
for(int i = 0; i < A.length; ++i) {</pre>
9
10
                   if(table.containsKey(A[i])) {
11
12
                        table.put(A[i], table.get(A[i])+1);
14
15
                        table.put(A[i], 1);
16
17
               }
18
19
               for(Integer key : table.keySet()) {
20
                   if(table.get(key) % 2 != 0) {
21
                        return key;
22
23
24
25
               // this line shouldn't be executed
26
               return A[0];
```



Training center