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Training ticket

Session

ID: trainingCQQTT7-TVH Time limit: 120 min.

Status: closed

Created on: 2016-06-05 08:27 UTC Started on: 2016-06-05 08:27 UTC Finished on: 2016-06-05 08:28 UTC

Tasks in test

Correctness

Performance

Task score

77%

score: 77 of 100

 ∇

:= MissingInteger Submitted in: Java

1. MissingInteger

Find the minimal positive integer not occurring in a given sequence.

Solution

Programming language used: Java

Total time used: 1 minutes

Effective time used: 1 minutes

Notes: not defined yet

Task timeline

08:27:51

08:28:30

Code: 08:28:30 UTC, java, final, score: 77

show code in pop-up

// you can also use imports, for example: // import java.util.*; 3 4 // you can write to stdout for debugging purposes, e.g. 5 // System.out.println("this is a debug message"); 6 class Solution { 8 public int solution(int[] A) { 9 10 boolean[] used = new boolean[A.length]; 11 12 for (int i=0;i<A.length;i++) {</pre> 13 cv = A[i];if (cv > 0 && cv <= A.length && !used[cv-1])</pre>

used[cv-1]=true;

Task description

Write a function:

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

that, given a non-empty zero-indexed array A of N integers, returns the minimal positive integer (greater than 0) that does not occur in A.

For example, given:

A[0] = 1

A[1] = 3A[2] = 6

A[3] = 4

A[4] = 1

A[5] = 2

the function should return 5.

Assume that:

- N is an integer within the range [1..100,000];
- · each element of array A is an integer within the range [-2,147,483,648..2,147,483,647].

Complexity:

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

Elements of input arrays can be modified.

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```
16
17
18
19
             for (int i=0;i<used.length;i++) {</pre>
20
               if (!used[i]) {
21
                 return i+1;
22
23
24
25
             return 0;
26
27
28
    }
```

Analysis summary



Training center