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Training ticket

Session

ID: trainingJXR9HV-PCN
Time limit: 120 min.

Status: closed

Created on: 2016-06-04 10:19 UTC Started on: 2016-06-04 10:19 UTC Finished on: 2016-06-04 10:20 UTC

Tasks in test

1 | := CyclicRotation
Submitted in: Java

Correctness

0% not assessed

Performance

Task score

100%

100% 100 out of 100 points

1. CyclicRotation

Rotate an array to the right by a given number of steps.

score: 100 of 100



Task description

A zero-indexed array A consisting of N integers is given. Rotation of the array means that each element is shifted right by one index, and the last element of the array is also moved to the first place.

For example, the rotation of array A = [3, 8, 9, 7, 6] is [6, 3, 8, 9, 7]. The goal is to rotate array A K times; that is, each element of A will be shifted to the right by K indexes.

Write a function:

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

that, given a zero-indexed array A consisting of N integers and an integer K, returns the array A rotated K times.

For example, given array A = [3, 8, 9, 7, 6] and K = 3, the function should return [9, 7, 6, 3, 8].

Assume that:

- N and K are integers within the range [0..100];
- each element of array A is an integer within the range [-1,000..1,000].

In your solution, focus on **correctness**. The performance of your solution will not be the focus of the assessment.

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Solution

Programming language used: Java

Total time used: 1 minutes

Effective time used: 1 minutes

Notes: not defined yet

Task timeline



10:20:15

Code: 10:20:15 UTC, java, final,

show code in pop-up

score: 100

10:19:47

```
// you can also use imports, for example:
     // import java.util.*;
4
     // you can write to stdout for debugging purposes, e.g.
     // System.out.println("this is a debug message");
6
    class Solution {
8
         public int[] solution(int[] A, int K) {
9
         if (A == null | | A.length < 2 | | K == 0) return A;</pre>
10
11
         K = (K > A.length ? K % A.length : K);
12
         if (K==0) return A;
13
         int[] tmp = new int[K];
```

```
16
         int K1=0;
17
         // store last elements in temporary array
18
         for (;K1<K;K1++) {</pre>
19
          tmp[K1] = A[A.length - K + K1];
20
21
22
         // shift values
23
         for (int i=(A.length - 1 - K1);i>=0;i--) {
24
          A[i+K1] = A[i];
25
26
27
         // copy elements from temporary array into begin of
28
         for(int i=0;i<tmp.length;i++) {</pre>
29
          A[i] = tmp[i];
30
31
32
         return A;
33
         }
34
     }
```

Analysis summary

The solution obtained perfect score.

Analysis vonand all Example

expand all Example tests		ample tests
•	example example test	∠ OK
expand all Correctness tes		rectness tests
•	extreme_empty empty array	∠ OK
•	single one element, 0 <= K <= 5	∠ OK
•	double two elements, K <= N	∠ OK
•	small1 small functional tests, K < N	∠ OK
•	small2 small functional tests, K >= N	∠ OK
•	small_random_all_rotati	
•	medium_random medium random sequence, N	∨ OK 100
•	maximal maximal N and K	∨ OK

0

Training center