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Training ticket

Session

ID: training5YEJGH-9KT **Time limit:** 120 min.

Status: closed

Created on: 2016-04-17 00:25 UTC Started on: 2016-04-17 00:25 UTC Finished on: 2016-04-17 00:33 UTC

Tasks in test

1 | CyclicRotation

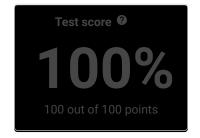
Correctness

100%

Performance not assessed

Task score

100%



1. CyclicRotation

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

score: 100 of 100

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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: 8 minutes Effective time used: 8 minutes Notes: not defined yet Task timeline

Code: 00:33:18 UTC, java, final, show code in pop-up score: 100 // you can also use imports, for example: // import java.util.*; 3 // you can write to stdout for debugging purposes, e.g // System.out.println("this is a debug message"); 8 public int[] solution(int[] A, int K) { 9 int N = A.length; int[] R = new int[N]; for (int i = 0; i < N; i++) {</pre> 10 11 12 R[(i+K)%N] = A[i];13 14 15 return R; 16 17

Analysis summary

The solution obtained perfect score.

Analysis

0

| expan | id all | Example tests |
|-------------|---|------------------------|
| • | example example test | ✓ OK |
| expan | nd all | Correctness tests |
| > | extreme_empty empty array | ✓ OK |
| • | single one element, 0 <= K <= 5 | ✓ OK |
| • | double two elements, K <= N | ✓ OK |
| > | small1 small functional tests, K | ✓ OK N |
| • | small2 small functional tests, K | ✓ OK = N |
| • | small_random_all_r small random sequence | |
| • | medium_random medium random sequen | ✓ OK e, N = 100 |
| • | maximal N and K | ✓ OK |

Training center