

Congratulations

You have completed a Codility training test.

Sign up for our newsletter!

Like us on Facebook!

Training ticket

Session

ID: trainingDR3VBJ-3C6 Time limit: 120 min.

Status: closed

Created on: 2016-06-04 10:07 UTC Started on: 2016-06-04 10:07 UTC Finished on: 2016-06-04 10:11 UTC

Tasks in test

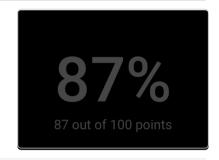
CyclicRotation Submitted in: Java

Correctness

Performance not assessed

Task score

87%



score: 87 of 100

1. CyclicRotation

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

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

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.

Copyright 2009-2016 by Codility Limited. All Rights Reserved. Unauthorized copying, publication or disclosure prohibited

Solution

Programming language used: Java

Total time used: 4 minutes

Effective time used: 4 minutes

Notes: not defined yet

Task timeline

10:07:58



10:11:35

Code: 10:11:35 UTC, java, final, score: 87

show code in pop-up

```
// 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
         K = (K > A.length ? K % A.length : K);
10
         if (K==0) return A;
11
12
         int[] tmp = new int[K];
13
         int K1=0;
         // store last elements in temporary array
```

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

Analysis summary

The following issues have been detected: runtime errors.

Analysis Example tests expand all example ✓ OK example test Correctness tests expand all extreme_empty **X** RUNTIME ERROR empty array tested program terminated unexpectedly single ✓ OK one element, 0 <= K <= 5 ▶ double ✓ OK two elements, K <= N small1 ✓ OK small functional tests, K < N small2 ✓ OK small functional tests, K >= N small_random_all_rotations ✓ OK small random sequence, all rotations, N = 15 medium_random ✓ OK medium random sequence, N = 100 ✓ OK maximal maximal N and K

Training center