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Candidate Report: Anonymous

Test Name:

[SUMMARY](#) [TIMELINE](#)

Test Score

100 out of 100 points

100%

Tasks in Test

CyclicRotation
Submitted in: Java

Time Spent ⓘ

1 min

Task Score

100%

TASKS DETAILS

EASY

1. CyclicRotation

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

Task Score

100%

Correctness

100%

Performance

Not assessed

Task description

An 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 moved to

Solution

Programming language used: Java

10/08/2018

the first place. For example, the rotation of array A = [3, 8, 9, 7, 6] is [6, 3, 8, 9, 7] (elements are shifted right by one index and 6 is moved to the first place).

The goal is to rotate array A K times; that is, each element of A will be shifted to the right K times.

Write a function:

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

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

For example, given

```
A = [3, 8, 9, 7, 6]
K = 3
```

the function should return [9, 7, 6, 3, 8]. Three rotations were made:

```
[3, 8, 9, 7, 6] -> [6, 3, 8, 9, 7]
[6, 3, 8, 9, 7] -> [7, 6, 3, 8, 9]
[7, 6, 3, 8, 9] -> [9, 7, 6, 3, 8]
```

For another example, given

```
A = [0, 0, 0]
K = 1
```

the function should return [0, 0, 0]

Given

```
A = [1, 2, 3, 4]
K = 4
```

the function should return [1, 2, 3, 4]

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].

Test results - Codility

Total time used: 1 minutes



Effective time used: 1 minutes



Notes: *not defined yet*

Task timeline



14:33:29

14:34:04

Code: 14:34:03 UTC, java, final, score:
100

[show code in pop-up](#)

```
1 // you can also use imports, for example:
2 // 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
7 class Solution {
8     public int[] solution(int[] A, int K) {
9         // write your code in Java SE 8
10        if( A == null || A.length == 0 )
11            return A;
12        for( int i = 0; i < K; i++ ){
13            int temp = A[A.length - 1];
14            for( int j = A.length - 1; j > 0; j-- )
15                A[j] = A[j-1];
16            A[0] = temp;
17        }
18        return A;
19    }
20 }
```

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

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Test results - Codility

Analysis summary

The solution obtained perfect score.

Analysis ?

expand all	Example tests
▶ example first example test	✓ OK
▶ example2 second example test	✓ OK
▶ example3 third example test	✓ OK
expand all	Correctness tests
▶ extreme_empty empty array	✓ OK
▶ single one element, $0 \leq K \leq 5$	✓ OK
▶ double two elements, $K \leq N$	✓ OK
▶ small1 small functional tests, $K < N$	✓ OK
▶ small2 small functional tests, $K \geq N$	✓ OK
▶ small_random_all_rotations small random sequence, all rotations, $N = 15$	✓ OK
▶ medium_random medium random sequence, $N = 100$	✓ OK
▶ maximal maximal N and K	✓ OK