codility

Training center

training tasks

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https://codility.com/demo/take-sample-test/cyclic_rotation/

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Training ticket

Session

ID: trainingUD8GU8-ZCS
Time limit: 120 min.

Status: closed

Created on: 2016-02-18 08:48 UTC
Started on: 2016-02-18 08:48 UTC
Finished on: 2016-02-18 08:48 UTC

Tasks in test	Correctness	Performance	Task score
1 CyclicRotation Submitted in: Go	100%	not assessed	100%

Test score

100%

100 out of 100 points

EASY

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:

```
func Solution(A []int, K int) []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.

Solution

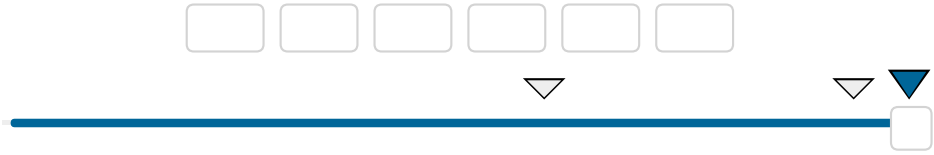
Programming language used: Go

Total time used: 1 minutes

Effective time used: 1 minutes

Notes: *not defined yet*

Task timeline



08:48:20 08:48:52

Code: 08:48:52 UTC, go, final, score: **100.00**

show code in pop-up

```
1  package solution
2
3  // you can also use imports, for example:
4  // import "fmt"
5  // import "os"
```

```
6
7   // you can write to stdout for debugging purposes, e.g.
8   // fmt.Println("this is a debug message")
9
10  func Solution(A []int, K int) []int {
11
12      size := len(A)
13      r := make([]int, size)
14
15      if size < 1 {
16          return A
17      }
18
19      for i := 0; i < size; i++ {
20          r[(i+K)%size] = A[i]
21      }
22
23      return r
24  }
```

Analysis summary

The solution obtained perfect score.

Analysis

expand all	Example tests	
▶	example example test	✔ OK
expand all	**Correctness tests**	
▶	extreme_empty empty array	✔ OK
▶	single one element, 0 <= K <= 5	✔ OK
▶	double	✔ OK

	two elements, K <= N	
▶	small1 small functional tests, K < N	✔ OK
▶	small2 small functional tests, K >= 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

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