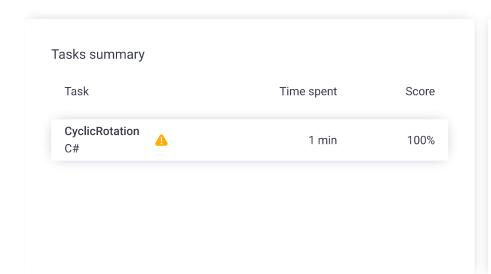
Codility_

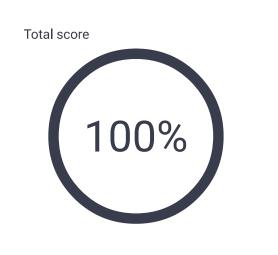
CodeCheck Report: training2ZTJB8-8EX

Test Name:

Summary Timeline

Check out Codility training tasks





Tasks Details

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1. CyclicRotation

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

Task Score

Correctness

100%

Performance

100% 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 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

$$A = [3, 8, 9, 7, 6]$$

 $K = 3$

Solution

score: 100

Programming language used: C#

Total time used: 1 minutes

Effective time used: 1 minutes

Notes: not defined yet

Task timeline

18:49:31

18:49:55

Code: 18:49:55 UTC, cs, final, show code in pop-up

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

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].

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

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```
1
     using System;
2
3
     /* Lesson 2.1 - Cyclic Rotation
      * Paulo Santos
4
5
      * 24.Nov.2022
6
     class Solution {
7
8
         public int[] solution(int[] A, int K) {
9
10
                       * Check the input
11
12
                     if (A == null)
13
                              throw new ArgumentNullExcep
14
15
             var len = A.Length;
                                              // the size
16
             var ans = new int[len]; // the answer
17
18
19
                      * Iterates through the array
20
                       st shifting the elements to the rig
21
22
23
             for(var i = 0; i < len; i++){
24
                 ans[(i + K) \% len] = A[i];
25
             }
26
             return ans;
27
         }
28
     }
```

Analysis summary

The solution obtained perfect score.

Analysis

expand all	Example tests	
• example first example test	√ (DΚ
example 2 second example to	√ (ΣK
example3 third example test	√ (OK
expand all	Correctness tests	
empty array	y	DΚ
► single one element, 0 <=	√ (K <= 5	DΚ
double two elements, K <=	√ (DΚ
small1 small functional te	√ (DΚ
small2 small functional te	√ (DΚ
small_random_ small random sequence = 15	_all_rotations	OK

	medium_random medium random sequence, N = 100	✓ OK
•	maximal maximal N and K	√ OK