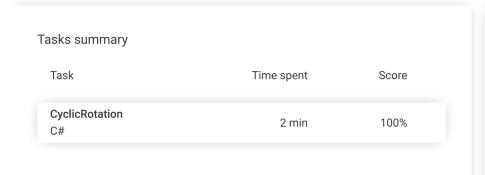
# Codility\_

# Candidate Report: trainingA7NCY4-DNY

Check out Codility training tasks

Test Name:

Summary Timeline Feedback



Task Score



#### **Tasks Details**

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

Correctness 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

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

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

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

 $[6, 3, 8, 9, 7] \rightarrow [7, 6, 3, 8, 9]$ 

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

## Solution

Programming language used: C#

Total time used: 2 minutes

Effective time used: 2 minutes

Notes: not defined yet

Task timeline



Code: 19:49:43 UTC, cs, final, show code in pop-up score: 100

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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```
using System;
     using System.Collections.Generic;
3
     // you can also use other imports, for example:
     // using System.Collections.Generic;
     // you can write to stdout for debugging purposes, e.g.
6
7
     // Console.WriteLine("this is a debug message");
8
9
     class Solution {
10
         int[] Shift(int[] array)
11
12
                  if (array == null || array.Length <= 1)</pre>
13
                     return array;
                  var nFirst = array[array.Length-1];
14
15
                 List<int> lst = new List<int>();
16
                 lst.Add(nFirst);
                 for (int i= 0; i < array.Length-1; i++)</pre>
17
18
19
                      lst.Add(array[i]);
20
21
                  }
                  return lst.ToArray();
22
23
24
             public int[] solution(int[] A, int K)
25
26
                  int len = A.Length;
27
                  for (int i = 0; i < K; i++)
28
                      A = Shift(A);
29
30
31
                  return A;
32
             }
33
     }
```

#### Analysis summary

The solution obtained perfect score.

## Analysis 2

expar	nd all <b>Exa</b>	mple tests		
•	example		✓	OK
	first example test			
•	example2		✓	OK
	second example test			
•	example3		✓	OK
	third example test			
expar	expand all Correctness te		ts	
•	extreme_empty		✓	OK
	empty array			
•	single		✓	OK
	one element, 0 <= K <= 5			
<b>•</b>	double		✓	OK
	two elements, K <= N			
•	small1		✓	OK
	small functional tests, K < N			
•	small2		√	OK
	small functional tests, K >= N			
•	small_random_all_rotation	าร	✓	OK
	small random sequence, all rotat	tions, N = 15		
•	medium_random		<b>√</b>	OK
	medium random sequence, N = 1	100		

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