codility

Check out Codility training tasks

Candidate Report: Anonymous

Test Name:

SUMMARY TIMELINE

Test Score

Tasks in Test

87 out of 100 points

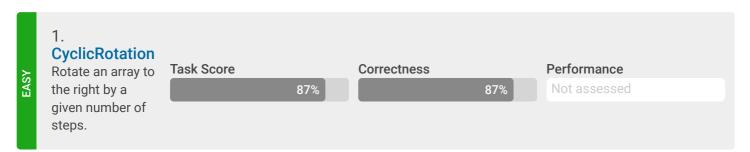
CyclicRotation Submitted in: C#

Time Spent Task Score

25 min

87%

TASKS DETAILS



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

Solution

Programming language used:	C#	
Total time used:	25 minutes	②
Effective time used:	25 minutes	0
Notes:	not defined yet	
Task timeline		?
22:40:46 23:04:52		

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

 $K = 3$

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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```
Code: 23:04:51 UTC, cs,
                                   show code in pop-up
 final, score: 87
 1
     using System;
 2
     // you can also use other imports, for example:
 3
     // using System.Collections.Generic;
 4
 5
     // you can write to stdout for debugging purpose
 6
     // Console.WriteLine("this is a debug message");
 7
 8
     class Solution {
 9
         public int[] solution(int[] A, int K)
10
              for (int i = 1; i <= K; i++)</pre>
11
12
13
                  var first = A[0];
14
                  var last = A[A.Length - 1];
15
16
                  var prev = first;
17
                  for (int j = 1; j < A.Length; j++)</pre>
18
19
                      var curr = A[j];
20
                      A[j] = prev;
21
                      prev = curr;
22
                  }
23
24
                  A[0] = last;
25
              }
26
27
              return A;
28
         }
29
     }
```

Analysis summary

The following issues have been detected: runtime errors.

For example, for the input ([], 1) the solution terminated unexpectedly.

Analysis 😢

ехра	and all	Example tests
•	example	✓ OK
	first example test	
•	example2	✓ OK
	second example test	
•	example3	✓ OK
	third example test	
expand all Correctness tests		
•	extreme_empty	x RUNTIME ERROR
•		
>	extreme_empty	x RUNTIME ERROR
•	extreme_empty	X RUNTIME ERROR tested program
>	extreme_empty	X RUNTIME ERROR tested program terminated with exit
>	extreme_empty empty array	X RUNTIME ERROR tested program terminated with exit code 1 ✓ OK
 	extreme_empty empty array single	X RUNTIME ERROR tested program terminated with exit code 1 ✓ OK

double two elements, K <= N	√ OK
► small1 small functional tests, K < N	√ OK
► small2 small functional tests, K >= N	√ OK
small_random_all_rotation small random sequence, all rotation N = 15	
medium_random medium random sequence, N =	✓ OK 100
maximal maximal N and K	√ OK