

Candidate Report: Anonymous

Test Name:

Summary Timeline

Test Score

87 out of 100 points

87%

Tasks in Test

	Time Spent ⓘ	Task Score
CyclicRotation Submitted in: JavaScript	20 min	87%

TASKS DETAILS

EASY	1. CyclicRotation Rotate an array to the right by a given number of steps.	Task Score	Correctness	Performance
		87%	87%	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:

```
function solution(A, 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:	JavaScript
Total time used:	20 minutes ⓘ
Effective time used:	20 minutes ⓘ
Notes:	not defined yet

Task timeline ⓘ
<div><div></div><div></div><div></div><div></div><div></div><div></div></div>

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].

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

Copyright 2009–2019 by Codility Limited. All Rights Reserved.
Unauthorized copying, publication or disclosure prohibited.

15:35:02

15:54:27

Code: 15:54:27 UTC, js,
final, score: 87

[show code in pop-up](#)

```
1 // you can write to stdout for debugging purpose
2 // console.log('this is a debug message');
3
4 function solution(arr, k) {
5     if (k <= 0) {
6         return arr;
7     }
8
9     const result = [];
10    const arrLength = arr.length;
11
12    result[0] = arr[arrLength - 1];
13
14    for (var i = 1; i < arrLength; i++) {
15        result[i] = arr[i-1];
16    }
17
18    return solution(result, --k);
19 }
```

Analysis summary

The following issues have been detected: runtime errors.

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

Analysis ?

expand all

Example tests

- | | |
|---------------------|------|
| ▶ example | ✓ OK |
| first example test | |
| ▶ example2 | ✓ OK |
| second example test | |
| ▶ example3 | ✓ OK |
| third example test | |

expand all

Correctness tests

- | | |
|-----------------|--|
| ▼ extreme_empty | ✗ RUNTIME ERROR |
| empty array | tested program
terminated with exit
code 1 |

1. 0.068 OK
s

2. 0.072 RUNTIME ERROR, tested program terminated with exit
s code 1
stderr:

Invalid result type, integer expected, 'undefined'
Perhaps you are missing a 'return'?



▶	single	✓ OK
	one element, $0 \leq K \leq 5$	
▶	double	✓ OK
	two elements, $K \leq N$	
▶	small1	✓ OK
	small functional tests, $K < N$	
▶	small2	✓ OK
	small functional tests, $K \geq N$	
▶	small_random_all_rotations	✓ OK
	small random sequence, all rotations, $N = 15$	
▶	medium_random	✓ OK
	medium random sequence, $N = 100$	
▶	maximal	✓ OK
	maximal N and K	

PDF version of this report that may be downloaded on top of this site may contain sensitive data including personal information. For security purposes, we recommend you remove it from your system once reviewed.