cødility

Candidate Report: Anonymous

Test Name:

Summary Timeline

Tasks in Test **Test Score**

87 out of 100 points Time Spent Task Score

87%

CyclicRotation 20 min Submitted in: JavaScript

TASKS DETAILS

CyclicRotation

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

Task Score

Correctness

87%

87%

Performance

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

0

87%

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

 $K = 3$

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.

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15:35:02 15:54:27

```
Code: 15:54:27 UTC, js,
                                  show code in pop-up
final, score: 87
 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 arrLenght = arr.length;
11
         result[0] = arr[arrLenght - 1];
12
13
         for (var i = 1; i < arrLenght; i++) {</pre>
14
15
              result[i] = arr[i-1];
16
         }
17
         return solution(result, --k);
18
19
     }
```

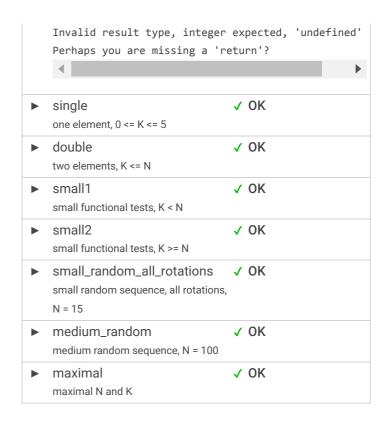
Analysis summary

The following issues have been detected: runtime errors.

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

Analysis 2

```
Example tests
expand all
example
                                    ✓ OK
    first example test
► example2
                                    ✓ OK
    second example test
► example3
                                    ✓ OK
    third example test
                    Correctness tests
expand all
▼ extreme_empty
                                    X 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
            code 1
    stderr:
```



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