Codility_

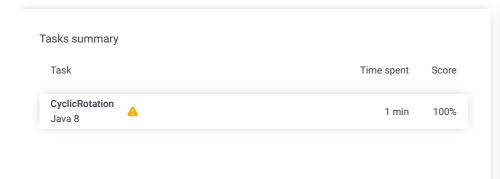
10/29/23, 11:26 PM

CodeCheck Report: trainingHC2KTQ-73C

Test Name:

Summary Timeline

Check out Codility training tasks





Tasks Details

1. CyclicRotation

Rotate an array to the right by a given number of

Correctness Performance
100% 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:

that, given an array A consisting of N integers and an integer K, returns the array A rotated K times.

For example, given

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

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]

Solution

21:23:35

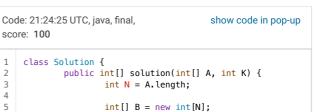
```
Programming language used: Java 8

Total time used: 1 minutes

Effective time used: 1 minutes

Notes: not defined yet

Task timeline
```



```
public int[] solution(int[] A, int K) {
    int N = A.length;

int[] B = new int[N];
    for (int i = 0; i < N; i++) {
        B[(i + K) % N] = A[i];
    }
    return B;

}</pre>
```

Analysis summary

21:24:25

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 ${\bf correctness}.$ The performance of your solution will not be the focus of the assessment.

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Test results - Codility

The solution obtained perfect score.

Analysis

Analysis								
collapse all Example tests								
	example			OK				
	first exam							
1.	0.004 s	ОК						
•		e2 xample test	~	OK				
1.	0.008 s	ок						
•	example third exam		~	OK				
1.		ок						
collap	se all	Correctness te	sts					
•	extreme	e_empty	V	OK				
	empty arr	ay						
1.	0.008 s	ОК						
2.	0.004 s	ОК						
_	single		_	OK				
	•	ent, 0 <= K <= 5						
1.	0.004 s	OK						
2.	0.008 s	ОК						
3.	0.004 s	ОК						
•	double		~	OK				
	two eleme	ents, K <= N						
1.	0.008 s	OK						
2.	0.004 s	OK						
•	small1		~	OK				
		ctional tests, K < N						
	0.008 s	OK						
2.	0.008 s	OK						
•	small fund	ctional tests, K >= N	~	OK				
1.	0.008 s	OK						
2.	0.008 s	OK						
3.	0.008 s	ОК						
_	small_ra	andom_all_rotations	~	OK				
·		dom sequence, all rotations, N = 15						
1.	0.004 s	ОК						
2.	0.004 s	ОК						
3.	0.004 s	ОК						
4.	0.004 s	ОК						
5.	0.008 s	OK						
6.	0.004 s	OK						
7.	0.004 s	ОК						
8.	0.004 s	ок						
9.	0.004 s	ОК						
10.	0.004 s	ОК						
11.	0.004 s	ОК						
12.	0.004 s	ОК						

Test results - Codility

4. 0.004 s **OK**

13.	0.008 s	ОК		
14.	0.008 s	ОК		
15.	0.004 s	ОК		
•		n_random andom sequence, N = 100	∨ OK	
1.	0.008 s	ОК		
2.	0.008 s	ОК		
•	maximal maximal N and K		∨ OK	
1.	0.004 s	ОК		
2.	0.004 s	ОК		
3.	0.008 s	ОК		