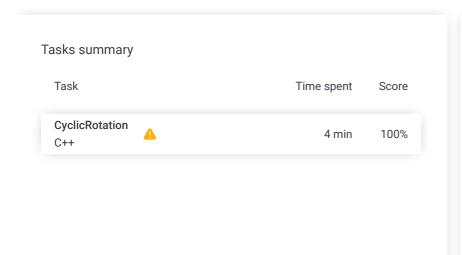
Codility_

CodeCheck Report: trainingY48Q3H-3GK

Test Name:

Check out Codility training tasks

Summary Timeline Al Assistant Transcript





Tasks Details

1. CyclicRotation Rotate an array to the

right by a given number of steps.

Task Score

100%

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:

vector<int> solution(vector<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

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

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

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

Solution

3

Programming language used:

Total time used: 4 minutes

Effective time used: 4 minutes

Notes: not defined yet

Task timeline



Code: 09:29:51 UTC, cpp, show code in pop-up final, score: 100 1 // you can use includes, for example: 2 #include <bits/stdc++.h>

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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Test results - Codility

```
// you can write to stdout for debugging purposes,
     // cout << "this is a debug message" << endl;</pre>
6
     vector<int> solution(vector<int> &A, int K) {
         // Implement your solution here
8
         if(A.size()==0) return A;
          K=K\%A.size() ;// to check the condition if th
10
         if(K==0) // if K is zero then no rotation
11
12
         return A;
         int temp=A.size()-K;
13
         \ensuremath{//} point where to rotate
14
15
         reverse(A.begin(),A.begin()+temp);
16
         reverse(A.begin()+temp , A.end());
17
         reverse(A.begin(),A.end());
         return A;
18
19
     }
```

Analysis summary

The solution obtained perfect score.

Analysis

expand all	Exar	mple tests	
example first exam		✓	ОК
example second e	e2 xample test	√	ОК
example third example		√	ОК
expand all	Corre	ctness tests	3
empty are	e_empty ray	✓	OK
single one elem	ent, 0 <= K <= 5	✓	ОК
► double two elem	ents, K <= N	√	ОК
small fun	ctional tests, K < N	•	OK
small fun	small2 small functional tests, K >= N		OK
	small random sequence, all rotations,		ОК
	n_random random sequence,	•	OK
► maximal		√	OK