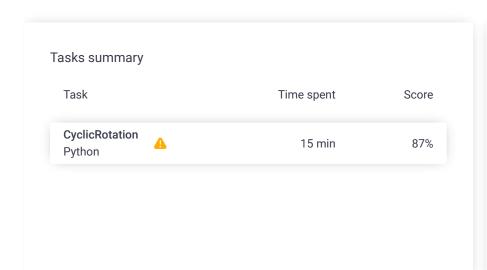
Codility_

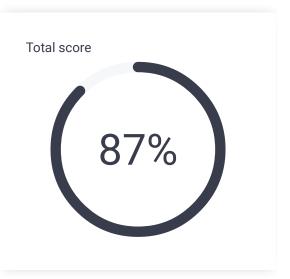
Candidate Report: training8F788W-E3W

Check out Codility training tasks

Test Name:

Summary Timeline





Tasks Details

1. CyclicRotation

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

87%

Correctness

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:

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

For example, given

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

 $K = 3$

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

Solution

Programming language used: Python

87%

Total time used: 15 minutes

Effective time used: 15 minutes

not defined yet Notes:

Task timeline



09:25:43 09:40:15

Code: 09:40:15 UTC, py, final,

show code in pop-up

score: 87

```
[3, 8, 9, 7, 6] \rightarrow [6, 3, 8, 9, 7]
[6, 3, 8, 9, 7] \rightarrow [7, 6, 3, 8, 9]
[7, 6, 3, 8, 9] \rightarrow [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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```
# you can write to stdout for debugging purposes, e.g.
     # print("this is a debug message")
 2
 3
     def solution(A, K):
 5
          # write your code in Python 3.6
 6
         L = 1en(A)
 7
          K = K\%L
 8
          if K == 0:
 9
             return A
         i = 0
10
          dic = \{\}
11
          while i<L:
12
13
             idx = (i+K) \% L
             dic[idx] = A[i]
14
             i = i + 1
15
          #print(dic)
16
17
          tmp = []
          i = 0
18
         while i \le L:
19
20
             tmp.append(dic[i])
21
             i = i + 1
22
          return tmp
23
24
25
     """A = [1, 2, 3, 4]
26
     K = 4
      tmp = solution(A, K)
27
     print(tmp)""
28
```

Analysis summary

The following issues have been detected: runtime errors.

For example, for the input ([], 0) the solution terminated unexpectedly.

Analysis

xpand all	Example tests
example first example test	√ OK
example 2 second example te	√ OK st
example3 third example test	√ OK
expand all	Correctness tests
extreme_empty empty array	X RUNTIME ERROR tested program terminated with exit code 1
▶ single one element, 0 <= F	✓ OK
double two elements, K <=	√ OK N
small1 small functional te	✓ OK sts, K < N
small2 small functional te	✓ OK

sma	all_random_all_rotations Il random sequence, all ions, N = 15	√ OK	
•	medium_random medium random sequence, N =	✓ OK 100	
•	maximal maximal N and K	√ OK	

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