Arrays: Left Rotation ☆

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Check out the resources on the page's right side to learn more about arrays. The video tutorial is by Gayle Laakmann McDowell, author of the best-selling interview book Cracking the Coding Interview.

A left rotation operation on an array shifts each of the array's elements 1 unit to the left. For example, if 2 left rotations are performed on array [1, 2, 3, 4, 5], then the array would become [3, 4, 5, 1, 2].

Given an array a of n integers and a number, d, perform d left rotations on the array. Return the updated array to be printed as a single line of space-separated integers.

Function Description

Complete the function rotLeft in the editor below. It should return the resulting array of integers.

rotLeft has the following parameter(s):

- An array of integers **a**.
- An integer d, the number of rotations.

Input Format

The first line contains two space-separated integers n and d, the size of a and the number of left rotations you must perform. The second line contains n space-separated integers a[i].

Constraints

- $1 \le n \le 10^5$
- $1 \leq d \leq n$
- $1 \le a[i] \le 10^6$

Output Format

Print a single line of n space-separated integers denoting the final state of the array after performing d left rotations.

Sample Input



```
5 4
   1 2 3 4 5
Sample Output
   5 1 2 3 4
Explanation
When we perform d=4 left rotations, the array undergoes the following sequence of changes:
                    [1,2,3,4,5] 
ightarrow [2,3,4,5,1] 
ightarrow [3,4,5,1,2] 
ightarrow [4,5,1,2,3] 
ightarrow [5,1,2,3,4]
```

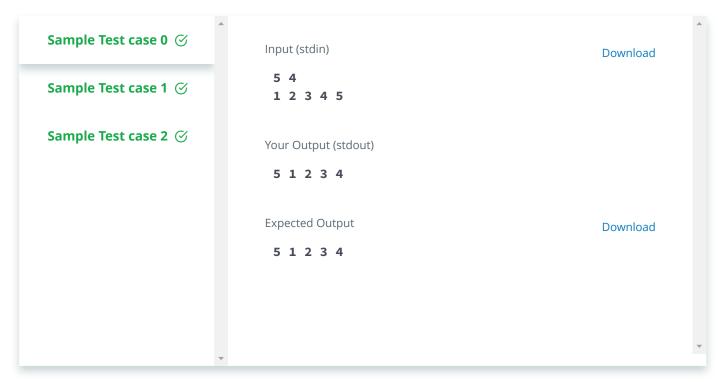
```
Python 3
                                                                                            (O)
     #!/bin/python3
 1
 2
 3
     import math
 4
     import os
 5
     import random
 6
     import re
 7
     import sys
 8
 9
     # Complete the rotLeft function below.
10
     def rotLeft(a, d):
         d=d%len(a)
11
12
         finished_list= a[d:]+a[0:d]
13
         return finished_list
14
15
16
     if __name__ == '__main__':
17
         fptr = open(os.environ['OUTPUT_PATH'], 'w')
18
19
         nd = input().split()
20
21
22
         n = int(nd[0])
23
         d = int(nd[1])
24
25
26
         a = list(map(int, input().rstrip().split()))
27
28
         result = rotLeft(a, d)
29
         fptr.write(' '.join(map(str, result)))
30
31
         fptr.write('\n')
32
         fptr.close()
33
34
```

Line: 14 Col: 25



Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.



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