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Arrays: Left Rotation ☆

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A left rotation operation on an array shifts each of the array's elements ${\bf 1}$ unit to the left. For example, if ${\bf 2}$ left rotations are performed on array $[{\bf 1},{\bf 2},{\bf 3},{\bf 4},{\bf 5}]$, then the array would become $[{\bf 3},{\bf 4},{\bf 5},{\bf 1},{\bf 2}]$. Given an array ${\bf a}$ of ${\bf n}$ integers and a number, ${\bf d}$, perform ${\bf d}$ 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):

Difficulty Easy
Max Score 20
Submitted By 383923
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- An array of integers **a**.
- ullet An integer $oldsymbol{d}$, the number of rotations.

Heraldo

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 $m{n}$ space-separated integers $m{a}[m{i}]$.

Constraints

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

Output Format

Print a single line of $m{n}$ space-separated integers denoting the final state of the array after performing $m{d}$ 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:

 $[1,2,3,4,5] \rightarrow [2,3,4,5,1] \rightarrow [3,4,5,1,2] \rightarrow [4,5,1,2,3] \rightarrow [5,1,2,3,4]$



10:08

- Arrays
- ArrayLists

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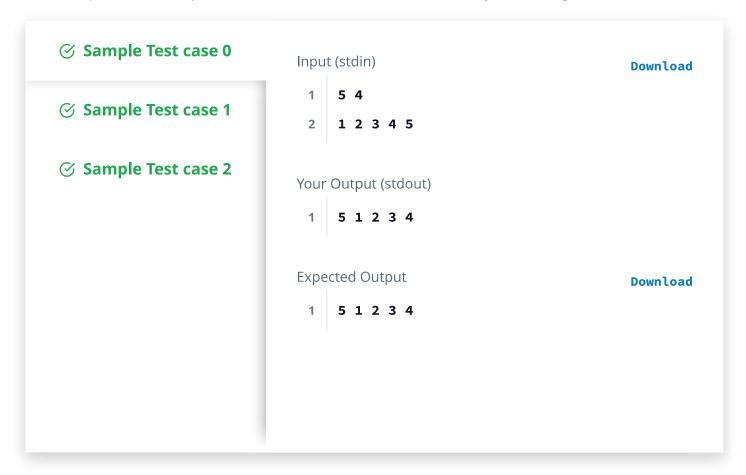




```
Python 3
                                                                    Change Theme
      def rotLeft():
  1
  2
          nd = input().split()
          n = int(nd[0])
          d = int(nd[1])
          a = list(map(int, input().rstrip().split()))
  6
          for i in range(d):
              x=a[0] #storing value in first position everytime
              z=a.remove(x) #removing the leftmost value
  8
  9
              a.append(x)
                             #appending the removed value to end of list
          for i in a:
 10
              print(i,end=' ') #printing values of list side by side
 11
 12
 13
      rotLeft()
 14
                                                                Line: 11 Col: 64
                     Test against custom input
1 Upload Code as File
                                                                 Submit Code
                                                   Run Code
```

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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