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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 **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.

Author

[Heraldo](#)

Difficulty

Easy

Max Score

20

Submitted By

[383923](#)

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RESOURCES

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

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

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:

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


10:08

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Python 3



```
1 def rotLeft():
2     nd = input().split()
3     n = int(nd[0])
4     d = int(nd[1])
5     a = list(map(int, input().rstrip().split()))
6     for i in range(d):
7         x=a[0] #storing value in first position everytime
8         z=a.remove(x) #removing the leftmost value
9         a.append(x)    #appending the removed value to end of list
10    for i in a:
11        print(i,end=' ') #printing values of list side by side
12
13 rotLeft()
14
```

Line: 11 Col: 64

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

✓ Sample Test case 0

✓ Sample Test case 1

✓ Sample Test case 2

Input (stdin)

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```
1 5 4
2 1 2 3 4 5
```

Your Output (stdout)

```
1 5 1 2 3 4
```

Expected Output

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```
1 5 1 2 3 4
```