H   🏠 **Domains**   ⬡ **Contests**   🏅 **Rank**   🏆 **Leaderboard**   💼 **Jobs**   🔍

Arrays: Left Rotation

H   by **saikiran9194**

Problem	Submissions	Leaderboard	Discussions	Editorial

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 of size n 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 of n integers and a number, d, perform d left rotations on the array. Then print the updated array as a single line of space-separated integers.

Input Format

The first line contains two space-separated integers denoting the respective values of n (the number of integers) and d (the number of left rotations you must perform).
The second line contains n space-separated integers describing the respective elements of the array's initial state.

Constraints

- $1 \le n \le 10^5$
- $1 \le d \le n$
- $1 \le a_i \le 10^6$

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:

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

Thus, we print the array's final state as a single line of space-separated values, which is `5 1 2 3 4`.

f ♥ in

Submissions: 15608

Max Score: 20

Difficulty: Easy

Rate This Challenge:
☆☆☆☆☆

Need Help?

10:08

Arrays

ArrayLists

More

Current Buffer (saved locally, editable)   Python 2   ⌄

```python
1  def array_left_rotation(a, n, k):
2
3      for i in range(0,k):
4          first = a[0]
5          temp = a[n-1]
6          for j in range(n-1,-1,-1):
7              temp1 = a[j-1]
8              a[j-1] = temp
9              temp = temp1
10          a[n-1] = first
11      return a
12
13
14
15
16  n, k = map(int, raw_input().strip().split(' '))
17  a = map(int, raw_input().strip().split(' '))
18  answer = array_left_rotation(a, n, k);
19  print ' '.join(map(str,answer))
20
```

Line: 10 Col: 27

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

Testcase 0 ✔

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run you code against all the test cases.

Input (stdin)

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

Your Output (stdout)

```
5 1 2 3 4
```

Expected Output

```
5 1 2 3 4
```

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature