



# Arrays: Left Rotation

by saikiran9194

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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 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

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

## 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:

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

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

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Submissions: 36272

Max Score: 20

Difficulty: Easy

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Python 2



```
1 def array_left_rotation(a, n, k):
2     return a[k:] + a[:k]
3
4 n, k = map(int, raw_input().strip().split(' '))
5 a = map(int, raw_input().strip().split(' '))
6 answer = array_left_rotation(a, n, k);
7 print ' '.join(map(str, answer))
8
```

Line: 1 Col: 1

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