

# **Arrays: Left Rotation**





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

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

### **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:

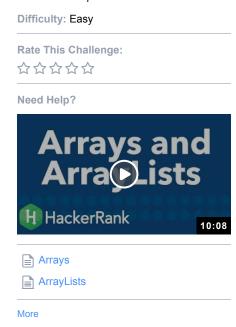
$$[1,2,3,4,5] \rightarrow [2,3,4,5,1] \rightarrow [3,4,5,1,2] \rightarrow [4,5,1,2,3] \rightarrow [5,1,2,3,4]$$

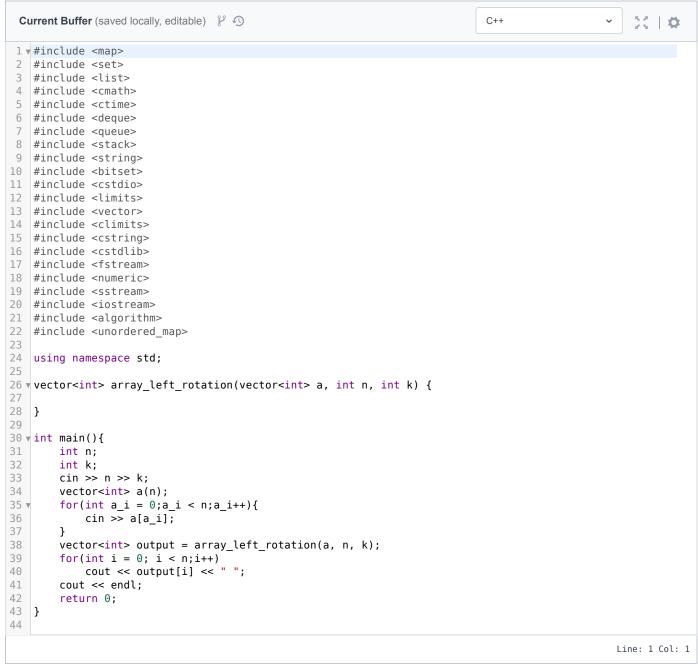
Thus, we print the array's final state as a single line of space-separated values, which is  $\begin{bmatrix} 5 & 1 & 2 & 3 & 4 \end{bmatrix}$ .



Submissions: 274

Max Score: 20





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