



# Left Rotation

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Problem

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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`.

Submissions: [67180](#)

Max Score: 20

Difficulty: Easy

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Java 8



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     static int[] leftRotation(int[] a, int d) {
10         // Complete this function
11     }
12
13     public static void main(String[] args) {
14         Scanner in = new Scanner(System.in);
15         int n = in.nextInt();
16         int d = in.nextInt();
17         int[] a = new int[n];
18         for(int a_i = 0; a_i < n; a_i++){
19             a[a_i] = in.nextInt();
20         }
21         int[] result = leftRotation(a, d);
22         for (int i = 0; i < result.length; i++) {
23             System.out.print(result[i] + (i != result.length - 1 ? " " : ""));
24         }
25         System.out.println("");
26
27         in.close();
28     }
29 }
30
31
```

Line: 1 Col: 1

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