



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.

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Max Score: 20

Difficulty: Easy

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Java 7



```
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

 [Upload Code as File](#) ☐ Test against custom input

Run Code

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