**R-r-riddikulus**

*"R-r-riddikulus"* used in the movie Harry Potter to transform anything from one form to other, Similarly you have to transform the array by rotation.

A *left rotation* operation on an array 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 a of n integers and a number, d, perform d left rotations on the array. Return the updated array to be printed as a single line of space-separated integers.

**Input Format**

The first line contains two space-separated integers n and d, the size of a and the number of left rotations you must perform.   
The second line contains space-separated integers a[i] .

**Constraints**

* 1<=n<=105
* 1<=d<=n
* 1<=a[i]<=106

**Output Format**

Print a single line of n space-separated integers denoting the final state of the array after performing  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]−>[2,3,4,5,1]−>[3,4,5,1,2]−>[4,5,1,2,3]−>[5,1,2,3,4]