A left rotation operation on an array of size n shifts each of the array's elements 1 unit to the left. Given an integer, d, rotate the array that many steps left and return the result.

Example

$d = 2$

$arr = [1, 2, 3, 4, 5]$

After 2 rotations, $arr' = [3, 4, 5, 1, 2]$.

Function Description

Complete the rotateLeft function in the editor below.

rotateLeft has the following parameters:

- int d: the amount to rotate by
- int arr[n]: the array to rotate

Returns

- int[n]: the rotated array

Input Format

The first line contains two space-separated integers that denote n, the number of integers, and d, the number of left rotations to perform.

The second line contains n space-separated integers that describe $arr[]$.

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq d \leq n$
- $1 \leq a[i] \leq 10^6$

Sample Input

```
5 4
1 2 3 4 5
```

Sample Output

```
5 1 2 3 4
```

Explanation

To perform $d = 4$ left rotations, the array undergoes the following sequence of changes:

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

Change Theme Language Java 8

```
16        * Complete the 'rotateLeft' function below.
17        *
18        * The function is expected to return an INTEGER_ARRAY.
19        * The function accepts following parameters:
20        *  1. INTEGER d
21        *  2. INTEGER_ARRAY arr
22        */
23
24       public static List<Integer> rotateLeft(int d, List<Inte
25       // Write your code here
26           int n = arr.size();
27           List<Integer>a = Arrays.asList(new Integer[n]);
28           d = d%n;
29
30           for(int i = 0; i<n; i++){
31               int idx = (i-d+n)%n;
32               a.set(idx,arr.get(i));
33           }
34
35           return a;
36       }
37
38   }
39
40   public class Solution {
```

Line: 68 Col: 1

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Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin) Download

```
1  5 4
2  1 2 3 4 5
```

Expected Output Download

```
1  5 1 2 3 4
```