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Left Rotation ★

Problem   Submissions   Leaderboard   Editorial 🔒

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

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

Sample Input

```
5 4
1 2 3 4 5
```
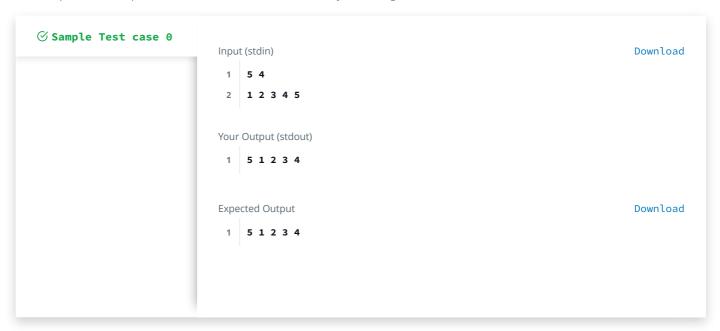
Sample Output

```
5 1 2 3 4
```

Explanation

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

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

Language   Java 8 ▾

Change Theme

```
10    import static java.util.stream.Collectors.joining;
11    import static java.util.stream.Collectors.toList;
12
13    class Result {
14
15        /*
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<Integer> arr) {
25        // Write your code here
26         for(int i=0;i<d;i++){
27             arr.add(arr.remove(0));
28          }
29         return arr;
30
31        }
32
33    }
34
35    public class Solution {
36        public static void main(String[] args) throws IOException {
37            BufferedReader bufferedReader = new BufferedReader(new InputStreamReader
```

Line: 18 Col: 60

⬆ Upload Code as File   ☐ Test against custom input   **Run Code**   **Submit Code**

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

⊘ **Sample Test case 0**

Input (stdin)   Download

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

Your Output (stdout)

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

Expected Output   Download

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

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