Arrays: Left Rotation ★

Problem Submissions Leaderboard Editorial 🛆

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]. Note that the lowest index item moves to the highest index in a rotation. This is called a circular array.

Given an array $m{a}$ of $m{n}$ integers and a number, $m{d}$, perform $m{d}$ left rotations on the array. Return the updated array to be printed as a single line of space-separated integers.

Function Description

Complete the function rotLeft in the editor below.

rotLeft has the following parameter(s):

- int a[n]: the array to rotate
- int d: the number of rotations

Returns

• int a'[n]: the rotated array

Input Format

The first line contains two space-separated integers $m{n}$ and $m{d}$, the size of $m{a}$ and the number of left rotations.

The second line contains $m{n}$ space-separated integers, each an $m{a}[m{i}]$.

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

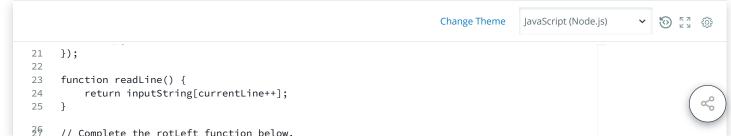
Sample Output

5 1 2 3 4

Explanation

When we perform d=4 left rotations, the array undergoes the following sequence of changes:

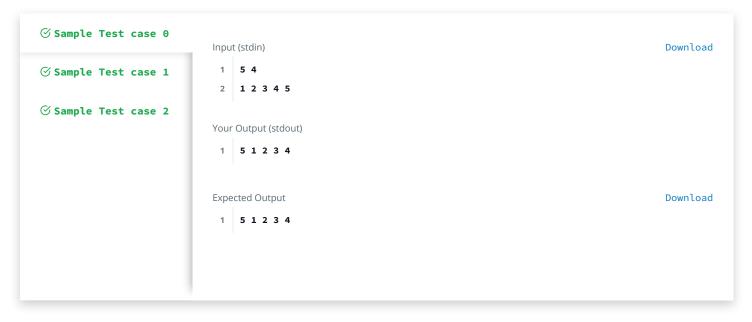
$$[1,2,3,4,5] \rightarrow [2,3,4,5,1] \rightarrow [3,4,5,1,2] \rightarrow [4,5,1,2,3] \rightarrow [5,1,2,3,4]$$



```
28
      function rotLeft(arr, rotations) {
 29
          const rotatedArray = arr.concat();
          for (let i=0; i<rotations; i++) {</pre>
 30
 31
               const frontItem = rotatedArray.shift();
 32
               rotatedArray.push(frontItem);
 33
 34
          return rotatedArray;
 35
      }
 36
 37
 38
      function main() {
          const ws = fs.createWriteStream(process.env.OUTPUT_PATH);
 39
 40
 41
          const nd = readLine().split(' ');
 42
 43
          const n = parseInt(nd[0], 10);
 44
                                                                                                              Line: 34 Col: 25
1 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.



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