SOFTWARE DEVELOPER ASSESSMENT

RULE: AN ANSWER CAN BE WRITTEN IN **ANY** PROGRAMMING LANGUAGE PROVIDED YOU INDICATE WHICH IN YOUR ANSWER. CONSIDER EDGE CASES & TIME OPTIMIZATION.
TIME: 45 MINS

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

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.

Function Description
Complete the function rotLeft below.
rotLeft has the following parameter(s):
   - int a[n]: the array to rotate
   - int d: the number of rotations

Function:
JAVA: public static List<Integer> rotLeft(List<Integer> a, int d){}
JAVASCRIPT: function rotLeft(a,d){}
TYPESCRIPT: function rotLeft(a: number[], d: number): number[] {}
PYTHON: def rotLeft(a, d):
C++: vector<int> rotLeft(vector<int> a, int d) {}
//Indicate if you require this function signature in any other language

Returns
   - int a'[n]: the rotated array

Input Format
Your method has two arguments: The array **a** and the number of rotations, **d**.

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

Sample Input

5 4
12345

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]