Given an integer n, return all the numbers in the range [1, n] sorted in lexicographical order.

You must write an algorithm that runs in O(n) time and uses O(1) extra space.

**Example 1:**

Input: n = 13  
Output: [1,10,11,12,13,2,3,4,5,6,7,8,9]

**Example 2:**

Input: n = 2  
Output: [1,2]

**Constraints:**

* 1 <= n <= 5 \* 104