Rotate an array of *n* elements to the right by *k* steps.

For example, with *n* = 7 and *k* = 3, the array [1,2,3,4,5,6,7] is rotated to [5,6,7,1,2,3,4].

**Note:**  
Try to come up as many solutions as you can, there are at least 3 different ways to solve this problem.

[[show hint]](https://leetcode.com/problems/rotate-array/)

**Hint:**  
Could you do it in-place with O(1) extra space?

Related problem: [Reverse Words in a String II](https://leetcode.com/problems/reverse-words-in-a-string-ii/)

**Credits:**  
Special thanks to [@Freezen](https://oj.leetcode.com/discuss/user/Freezen) for adding this problem and creating all test cases.

方法1：

每次向右旋转一个，旋转k次

时间复杂度 O(n\*2) 空间复杂度O(1)

方法2：

先自身逆序，再把前一部分逆序，再把后一部分逆序。

时间复杂度 O(n)，空间复杂度 O(n)

方法3：