

# 189. Rotate Array

561

424



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Notes

Given an array, rotate the array to the right by  $k$  steps, where  $k$  is non-negative.

## Example 1:

**Input:** [1,2,3,4,5,6,7] and  $k = 3$

**Output:** [5,6,7,1,2,3,4]

**Explanation:**

rotate 1 steps to the right: [7,1,2,3,4,5,6]

rotate 2 steps to the right: [6,7,1,2,3,4,5]

rotate 3 steps to the right: [5,6,7,1,2,3,4]

## Example 2:

**Input:** [-1,-100,3,99] and  $k = 2$

**Output:** [3,99,-1,-100]

**Explanation:**

rotate 1 steps to the right: [99,-1,-100,3]

rotate 2 steps to the right: [3,99,-1,-100]

## Note:

- Try to come up as many solutions as you can, there are at least 3 different ways to solve this problem.
- Could you do it in-place with  $O(1)$  extra space?

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```
1 class Solution(object):  
2     def rotate(self, nums, k):
```

```
3      """
4      :type nums: List[int]
5      :type k: int
6      :rtype: void Do not return anything, modify nums in-place instead.
7      """
8      while k > 0:
9          lastItem = nums[-1]
10         del nums[-1]
11         nums.insert(0, lastItem)
12         k -= 1
```

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