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283. Move Zeroes

Easy   👍 16399   👎 436   ♡ Add to List   📤 Share

Given an integer array `nums`, move all `0`'s to the end of it while maintaining the relative order of the non-zero elements.

Note that you must do this in-place without making a copy of the array.

Example 1:

```
Input: nums = [0,1,0,3,12]
Output: [1,3,12,0,0]
```

Example 2:

```
Input: nums = [0]
Output: [0]
```

Constraints:

- $1 <= nums.length <= 10^4$
- $-2^{31} <= nums[i] <= 2^{31} - 1$

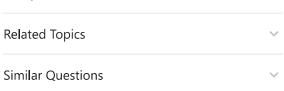**Follow up:** Could you minimize the total number of operations done?

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```python
class Solution:
    def moveZeroes(self, nums: List[int]) -> None:
        """
        Do not return anything, modify nums in-place instead.
        """
        i = 0

        for j in range(len(nums)):

            if nums[j] != 0:

                nums[i], nums[j] = nums[j], nums[i]

                i += 1
```

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