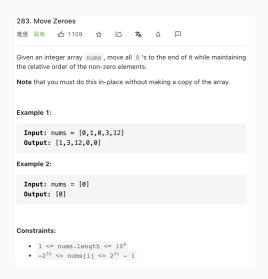
地址: ❷移动零

## 题目:

• English:



• 中文:



# 思路 1: 利用 inserting\_index 在原数组上操作

### 分析

- ★ 用变量 zero\_index 记录非零数将要插入要代替 0 元素的位置
- ★ 遍历数组,将非零值赋在要代替 0 元素的位置
- ★ 对原非零数位置 赋 0

#### Code

```
1  # Python3
2  # Did Time : 2021 - 07 - 07
3
```

```
class Solution:

def moveZeroes(self, nums: List[int]) -> None:

"""

Do not return anything, modify nums in-place instead.

"""

zero_index = 0  # position to insert the non zero numbe

for i in range(0, len(nums)):  # iterate through the nums array

if(nums[i] != 0):  # if ith value not equals 0, set its value to zero position

nums[zero_index] = nums[i]

if(i != zero_index):  # when ith is not the zero index, set ith value as 0

nums[i] = 0

zero_index += 1  # move to next zero index
```

## 复杂度分析:

1. 时间复杂度:O(n)

2. 空间复杂度: O(1)