

一、题目说明

题目283. Move Zeroes, 给定一组数, 将该组数中的0移动末尾, 其他数据相对位置不变。

二、我的解答

```
class Solution{
public:
    void moveZeroes(vector<int>& nums){
        if(nums.size()<2){
            return;
        }
        int len = nums.size();

        int i=0,j=0;
        //i指向更新的位置,j指向非0元素
        while(i<len &&j<len){
            if(nums[j]==0){
                j++;
            }else{
                nums[i] = nums[j];
                i++;
                j++;
            }
        }
        for(int t = i;t<len;t++){
            nums[t] = 0;
        }
    }
};
```

性能如下:

Runtime: 12 ms, faster than 97.09% of C++ online submissions for Move Zeroes.
Memory Usage: 9.5 MB, less than 87.50% of C++ online submissions for Move Zeroes.

三、优化措施

从左到右遍历数组, 统计0的个数, num[i]为整数, 则将其移动到 nums[i-count]

```
class Solution{
public:
    void moveZeroes(vector<int>& nums){
        int count = 0;
        for(int i=0;i<nums.size();i++){
            if(nums[i]==0){
                count++;
            }else if(count>0){
                nums[i-count] = nums[i];
                nums[i] = 0;
            }
        }
    }
};
```

```
    }  
};
```

性能

Runtime: 12 ms, faster than 97.09% of C++ online submissions for Move Zeroes.
Memory Usage: 9.5 MB, less than 84.72% of C++ online submissions for Move Zeroes.