# **Leet Code**

## **Day-41 Q-01 Sort Colors**

Given an array nums with n objects colored red, white, or blue, sort them **in-place** so that objects of the same color are adjacent, with the colors in the order red, white, and blue.

Here, we will use the integers 0, 1, and 2 to represent the color red, white, and blue respectively.

### Follow up:

- Could you solve this problem without using the library's sort function?
- Could you come up with a one-pass algorithm using only O(1) constant space?

#### **Example 1:**

```
Input: nums = [2,0,2,1,1,0]
Output: [0,0,1,1,2,2]
```

## **Example 2:**

```
Input: nums = [2,0,1]
Output: [0,1,2]
```

#### Example 3:

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

### **Example 4:**

```
Input: nums = [1]
Output: [1]
```

#### **Constraints:**

```
• n == nums.length
```

- 1 <= n <= 300
- nums[i] is 0, 1, or 2.