

# Coding Challenge

## Problem 1:

*Maximum Marks: 15*

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

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

You must solve this problem without using the library's sort function.

### 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]
```

**Follow up:** Could you come up with a one-pass algorithm using only constant extra space?