**Sort Colors**

<https://leetcode.com/problems/sort-colors/>

Given an array nums with n objects colored red, white, or blue, sort them [**in-place**](https://en.wikipedia.org/wiki/In-place_algorithm)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]

**Constraints:**

* n == nums.length
* 1 <= n <= 300
* nums[i] is either 0, 1, or 2.

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