Practice Problems

1.Sort an array of integers numbers in increasing order according to how frequently each number appears. If multiple values have the same frequency, sort them in decreasing order.

Return the *sorted array*.

Input: nums = [1,1,2,2,2,3]

Output: [3,1,1,2,2,2]

Explanation: '3' has a frequency of 1, '1' has a frequency of 2, and '2' has a frequency of 3.

2.Return an array containing the squares of each number in non-decreasing order given an integer array nums sorted in non-decreasing order.

Input: nums = [-4,-1,0,3,10]

Output: [0,1,9,16,100]

Explanation: After squaring, the array becomes [16,1,0,9,100].

After sorting, it becomes [0,1,9,16,100].

3.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.

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

Output: [0,0,1,1,2,2]