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75. Sort Colors

Medium

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Add to List

S

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.

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?

Accepted

1.9M

Submissions

3.1M

Seen this question in a real interview before?

Yes

No

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Hide Hint 1

A rather straight forward solution is a two-pass algorithm using counting sort.

Hide Hint 2

Iterate the array counting number of 0's, 1's, and 2's.

Hide Hint 3

1

class Solution:

2

def sortColors(self, nums: List[int]) -> None:

3

"""

4

Do not return anything, modify nums in-place instead.

5

"""

6

return nums.sort()

NEW

13/200

Console

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Run Code

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