

L 10+2 m 00 x 2 x 4 r 5 x 3

Code:

```
class Solution:
def sortColors(self, nums: List[int]) -> None:
    """
    Do not return anything, modify nums in-place instead.
    """
    # aka Dutch National Flag
    low, mid, high = 0, 0, len(nums) - 1

    while mid <= high:
        # if element at mid is 0: swap element at low and mid; increment low and mid
    if nums[mid] == 0:
        nums[low], nums[mid] = nums[mid], nums[low]
        low += 1
        mid += 1
    # if element at mid is 1: increment mid
    elif nums[mid] == 1:
        mid += 1
    # if element at mid is 2: swap element at mid and high; increment high
    elif nums[mid] == 2:
        nums[mid], nums[high] = nums[high], nums[mid]
        high -= 1</pre>
```