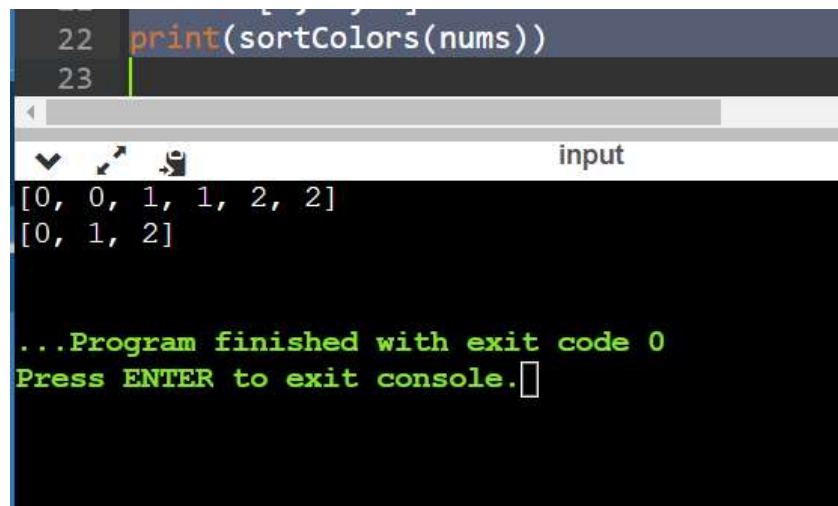**Problem – 5 : Sort an array of 0's, 1's, and 2's**

```python
def sortColors(nums):
    low = 0
    mid = 0
    high = len(nums) - 1

    while mid <= high:
        if nums[mid] == 0:
            nums[mid], nums[low] = nums[low], nums[mid]
            low += 1
            mid += 1
        elif nums[mid] == 1:
            mid += 1
        else:
            nums[mid], nums[high] = nums[high], nums[mid]
            high -= 1

    return nums
nums = [2, 0, 2, 1, 1, 0]
print(sortColors(nums))


nums = [2, 0, 1]
print(sortColors(nums))
```

```
 22  print(sortColors(nums))
 23  |

                              input
[0, 0, 1, 1, 2, 2]
[0, 1, 2]


...Program finished with exit code 0
Press ENTER to exit console.
```