Problem # 27: Remove Element

<https://leetcode.com/problems/remove-element/>

class Solution:

def removeElement(self, nums: List[int], val: int) -> int:

count\_val = nums.count(val) # get the count of elements having val in nums

n = len(nums)

j = n - 1 # point to the last element

# Move all the elements with value of val to the right

for i in range(n - count\_val):

if nums[i] == val:

while(nums[j] == val): # if the last element is already val, leave it as it is

j -= 1

nums[i], nums[j] = nums[j], nums[i] # pythonic swap

# the elements with value val are isolated to the right

nums = nums[0 : n - count\_val]

#print("nums after change = ", nums)

return(len(nums))