





Course Code: CSA0886	Course Name: Python Programming for Crafting Web Applications	
Branch: CSE	Slot: A	Date: 17/07/2024

 $\textbf{Session:} \quad 09.30 \text{ to } 11.00$

		Session: 09.30 to 11.00	
P. No.	Program		
	Given an integer array of nums and an integer value, remove all occurrences of val in nums in place. The order of the elements may be changed. Then, return the number of elements in nums that are not equal to value. Consider the number of elements in nums which are not equal to value be k, to get accepted, yo		
1			
	need to do the following things: Change the array nums such that the first k elements of nums contain		
	the elements which are not equal to val. The remaining elements of nums are not essential, nor is the size of nums. Return k.		
	Test Case 1:	Input: nums = $[3,2,2,3]$, val = 3	
	Test Case 2	Output: 2, nums = $[2,2,-,-]$	
	Test Case 2:	Input: nums = $[0,1,2,2,3,0,4,2]$, val = 2	
	G: 4 :	Output: 5, nums = $[0,1,4,0,3,-,-]$	
	Given two strings, needle and haystack, return the index of the first occurrence of needle in a haystack or -1 if the needle is not part of the haystack.		
2			
	Test Case 1:	Input: haystack = "sadbutsad", needle = "sad"	
	T4 C 9:	Output: 0	
	Test Case 2:	Input: haystack = "leetcode", needle = "leeto"	
	C: 4 1	Output: -1	
9	Given a sorted array of distinct integers and a target value, return the index if the target is found. If		
	not, return the index where it would be if inserted in order. You must write an algorithm with O(log n)		
	runtime complex Test Case 1:	·	
3	lest Case 1:	Input: nums = $[1,3,5,6]$, target = 5 Output: 2	
	Test Case 2:		
	lest Case 2.	Input: nums = $[1,3,5,6]$, target = 2	
	Civon a string s	Output: 1	
4	Given a string s consisting of words and spaces, return the length of the last word in the string. A word is a maximal substring consisting of non-space characters only.		
	Test Case 1:	Input: s = "Hello World"	
	lest Case 1.	Output: 5	
	Test Case 2:	Input: s = "fly me to the moon"	
	Test case 2.	Output: 4	
	You are given a	large integer represented as an integer array of digits, where each digit [i] is the ith digi	
5	of the integer. The digits are ordered from most significant to least significant in left-to-right order. The		
	large integer does not contain any leading 0s. Increment the large integer by one and return the resulting		
	array of digits.		
	Test Case 1:	Input: digits = $[1,2,3]$	
		Output: [1,2,4]	
	Test Case 2:	Input: digits = $[4,3,2,1]$	
		Output: [4,3,2,2]	