# Rajalakshmi Engineering College

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Branch: REC

Department: I AI & DS FD

Batch: 2028

Degree: B.E - AI & DS



### NeoColab\_REC\_CS23231\_DATA STRUCTURES

REC\_DS using C\_Week 1\_COD\_Question 6

Attempt : 1 Total Mark : 10 Marks Obtained : 10

Section 1: Coding

#### 1. Problem Statement

John is tasked with creating a program to manage student roll numbers using a singly linked list.

Write a program for John that accepts students' roll numbers, inserts them at the end of the linked list, and displays the numbers.

## **Input Format**

The first line of input consists of an integer N, representing the number of students.

The second line consists of N space-separated integers, representing the roll numbers of students.

Output Format

The output prints the space-separated integers singly linked list, after inserting the roll numbers of students at the end.

Refer to the sample output for formatting specifications.

### Sample Test Case

```
Input: 5
    23 85 47 62 31
    Output: 23 85 47 62 31
   Answer
   # You are using Python
class Node:
      def __init__(self,roll_no):
        self.roll_no = roll_no
        self.next=None
    class LinkedList:
      def __init__(self):
        self.head=None
      def ins(self, roll_no):
        new_node=Node(roll_no)
        if self.head is None:
          self.head=new_node
          return
        temp = self.head
        while temp.next:
          temp=temp.next
        temp.next=new_node
      def display(self):
        temp=self.head
        while temp:
          print(temp.roll_no,end=" ")
          temp=temp.next
        print()
   N=int(input().strip())
   roll_numbers=list(map(int,input().strip().split()))
   student_list=LinkedList()
   for roll_no in roll_numbers:
      student_list.ins(roll_no)
```

student\_list.display()

24,180,129,1

24,801291

Status: Correct Marks: 10/10

24,80,70,

241801291

24,80,129,

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24,180,129,1

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