# Rajalakshmi Engineering College

Name: Soameshwaran D

Email: 240701520@rajalakshmi.edu.in

Roll no: 240701520 Phone: 7358671540

Branch: REC

Department: I CSE FE

Batch: 2028

Degree: B.E - CSE



## 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 GCC
#include<stdio.h>
   #include<stdlib.h>
   typedef struct student{
     int roll;
     struct student* next;
   }Node:
   Node* newnode(int rollno){
     Node* data=(Node*)malloc(sizeof(Node));
     data->roll=rollno:
     data->next=NULL;
    return data;
   void traverse(Node* head){
     while(head!=NULL){
       printf(" %d",head->roll);
       head=head->next:
     }
   int main(){
     int n,rollno;
     scanf(" %d",&n);
   scanf(" %d",&rollno);
     Node* head=newnode(rollno);
```

```
240101520
                                      240701520
temp->next=newnode(rollno);
      temp=temp->next;
     }
     traverse(head);
   Status: Correct
                                                    Marks: 10/10
                                      240701520
240701520
                                                         240101520
                                      240701520
```