Rajalakshmi Engineering College

Name: KAVYA SRIRAM

Email: 241901045@rajalakshmi.edu.in

Roll no: 241901045 Phone: 8939657782

Branch: REC

Department: I CSE (CS) FA

Batch: 2028

Degree: B.E - CSE (CS)



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>
     struct node{
       int roll:
       struct node *next;
    };
    struct node *createnode(int data){
       struct node*newnode=(struct node*)malloc(sizeof(struct node));
       newnode->roll=data;
       newnode->next=NULL;
       return newnode;
    void list(struct node **head,int n){
       struct node*temp;
       for(int i=0;i<n;i++){
         int roll;
         scanf("%d",&roll);
         struct node*newnode=createnode(roll);
         if(*head==NULL){
           *head=newnode;
           temp=newnode;
2419010 lelse{
           temp->next=newnode;
           temp=newnode;
```

```
241901045
241907045
                                                        24,190,104,5
     void display(struct node*head){
       struct node *temp=head;
       while(temp!=NULL){
          printf("%d ",temp->roll);
          temp=temp->next;
       }
     int main(){
       int n;
       scanf("%d",&n);
                                                                                    241901045
                                                        241901045
list(&head,n);
       struct node *head=NULL;
list(&head,n);
display(head);
return 0;
       display(head);
       return 0;
     }
```

Status: Correct Marks: 10/10

241901045

0419010A5

24,190,104,5

24,190,1045

24,190,1045

241901045

24,190,104,5

241901045