Rajalakshmi Engineering College

Name: King Paviyon Manova J

Email: 241501086@rajalakshmi.edu.in

Roll no: 241501086 Phone: 8903370369

Branch: REC

Department: I AI & ML FA

Batch: 2028

Degree: B.E - AI & ML



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.

24/50/1086

241501086

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
   #include<stdio.h>
#include<stdlib.h>
   struct Node{
     int data:
     struct Node* next;
   struct Node* insert(struct Node* head,int value){
     struct Node* newNode=(struct Node*)malloc(sizeof(struct Node));
     newNode->data=value:
     newNode->next=NULL;
     if(head==NULL){
       return newNode;
   struct Node*temp=head:
     while(temp->next!=NULL){
       temp=temp->next;
     temp->next=newNode;
     return head;
   void printList(struct Node* head){
     struct Node* temp=head;
     while(temp!=NULL){
       printf("%d ",temp->data);
                                                 24/50/086
       temp=temp->next;
   void freeList(struct Node* head){
```

```
struct Node* temp;
while(head!=NULL){
    temp=head;
    head=head->next;
    free(temp);
}
int main(){
    int n;
    scanf("%d",&n);
    struct Node* head=NULL;
    for(int i=0;i<n;i++){
        int v;
        scanf("%d",&v);
        head=insert(head,v);
}

printList(head);
}</pre>
```

Status: Correct Marks: 10/10

241501086

241501086

24,150,1086

241501086

24,150,1086

241501086

247507086

241501086

24,150,1086

24,150,1086