Rajalakshmi Engineering College

Name: Hrishivendan P

Email: 241801094@rajalakshmi.edu.in

Roll no: 241801094 Phone: 9345916829

Branch: REC

Department: I AI & DS FB

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.

241801094

241801094

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 data:
      struct node *next;
    };
    typedef struct node Node;
    void insert(Node **head,int x)
      Node *newnode;
      newnode=(Node *)malloc(sizeof(Node));
   newnode->data=x;
      newnode->next=NULL;
      if(*head==NULL)
        *head=newnode;
        return;
      Node *current=*head;
      while(current->next!=NULL)
        current=current->next;
      current->next=newnode;
return;
ren:
return;
```

```
24,80,1094
                                                     24,180,1094
      Node *current=head; while(current!=NULL)
     void diplay(Node *head)
         printf("%d ",current->data);
         current=current->next;
       }
       return;
     }
     int main()
                                                                                24,80,1094
                          24,80,1094
                                                     24,180,1094
       Node *head=NULL;
int n;
       scanf("%d",&n);
       for(int i=0;i< n;i++){
         scanf("%d",&a);
         insert(&head,a);
       }
       diplay(head);
     Status: Correct
                                                                         Marks: 10/10
```

241801094

24,180,1094

24,80,1094

24,180,1094

24,80,1094

241801094

24,180,1094

24,180,1094