# Rajalakshmi Engineering College

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Branch: REC

Department: I CSE (CS) AC

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.

24,190,104,9

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

```
24,90,1049
                                                     24,190,1049
while(current!=NULL)
         printf("%d ",current->data);
         current=current->next;
       }
       return;
    }
    int main()
       Node *head=NULL;
                                                                               24,90,1049
       int n;
                                                     24,190,104,9
       scanf("%d",&n);
ecan
int a;
for/
      for(int i=0;i<n;i++){
         scanf("%d",&a);
         insert(&head,a);
       display(head);
    }
                                                                        Marks: 10/10
    Status: Correct
```

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24,190,104,9

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