# Rajalakshmi Engineering College

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Branch: REC

Department: I CSE FD

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.

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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;
  newnode->next=NULL
  if(*head==NULL)
    *head=newnode;
    return:
  Node *current=*head;
  while(current->next!=NULL)
  {
    current=current->next;
  current->next=newnode;
  return;
void display(Node *head)
```

```
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                                                                                 2176240701366
         while(current!=NULL)
{
 printf("%d"
Node *current=head;
while(current!=N''''``
            current=current->next;
         }
         return;
       int main()
                                                                                 2176240701366
scanf("%d",&n);
int a;
for/:-
         Node *head=NULL;
         for(int i=0;i<n;i++)
            scanf("%d",&a);
            insert(&head,a);
         }
         display(head);
         return 0;
       }
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                                                                                 2176240701366
```

Status: Correct Marks: 10/10

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