# Rajalakshmi Engineering College

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## 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*

```c
#include<stdio.h>
#include<stdlib.h>
typedef struct student
{
    int roll;
    struct student*next;

}Node;
Node*newnode(int rollno)
{
    Node* data=(Node*)malloc(sizeof(Node));
    data->roll=rollno;
    data->next = NULL;
    return data;
}
void traverse(Node* head)
{
    while(head!=NULL)
    {
        printf("%d",head->roll);
        head = head->next;
    }
}
int  main()
{
    int n,rollno;
    scanf("%d",&n);
    scanf("%d",&rollno);
```

```
Node*head=newnode(rollno);
Node*temp = head;
while(--n)
{
    scanf("%d",&rollno);
    temp->next = newnode(rollno);
    temp = temp->next;
}
traverse(head);
}
```

*Status :* Correct                                                    *Marks : 10/10*