

Rajalakshmi Engineering College

Name: Kirithick R
Email: 240701627@rajalakshmi.edu.in
Roll no: 2116240701627
Phone: 9952595005
Branch: REC
Department: I CSE FF
Batch: 2028
Degree: B.E - CSE

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NeoColab_REC_CS23231_DATA STRUCTURES

REC_DS using C_Week 2_COD_Question 2

Attempt : 1
Total Mark : 10
Marks Obtained : 2.5

Section 1 : Coding

1. Problem Statement

Moniksha, a chess coach organizing a tournament, needs a program to manage participant IDs efficiently. The program maintains a doubly linked list of IDs and offers two functions: Append to add IDs as students register, and Print Maximum ID to identify the highest ID for administrative tasks.

This tool streamlines tournament organization, allowing Moniksha to focus on coaching her students effectively.

Input Format

The first line consists of an integer n , representing the number of participant IDs to be added.

The second line consists of n space-separated integers representing the participant IDs.

Output Format

The output displays a single integer, representing the maximum participant ID.

If the list is empty, the output prints "Empty list!"

Refer to the sample output for the formatting specifications.

Sample Test Case

Input: 3

163 137 155

Output: 163

Answer

```
#include<stdio.h>
#include<stdlib.h>
struct Node{
    int Id;
    struct Node* prev;
    struct Node* next;
};
struct Node* head=NULL;
void Add(Node**head,int id){
    struct Node* newNode=(struct Node*)malloc(sizeof(struct Node));
    struct Node* P;
    newNode->Id=id;
    newNode->next=NULL;
    P=*head;
    if(*head==NULL){
        newNode->prev=*head;
        *head=newNode;
    }
    else{
        while(P->next!=NULL){
            P=P->next;
        }
        P->next=newNode;
        newNode->prev=P;
    }
}
```

```

}
void dis(struct Node* head){
    if(head!=NULL){
        int max=head->Id;
        struct Node* p=head;
        while(p!=NULL){
            if(p->Id > max){
                max=p->Id;
            }
            p=p->next;
        }
        printf("%d",max);
    }
    else{
        printf("Empty list!");
    }
}
int main(){
    int n,id;
    scanf("%d",&n);
    while(n--){
        scanf("%d",&id);
        Add(&head,id);
    }
    dis(head);
    return 0;
}

```

Status : Partially correct

Marks : 2.5/10