

Rajalakshmi Engineering College

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NeoColab_REC_CS23231_DATA STRUCTURES

REC_DS using C_Week 1_COD_Question 1

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Janani is a tech enthusiast who loves working with polynomials. She wants to create a program that can add polynomial coefficients and provide the sum of their coefficients.

The polynomials will be represented as a linked list, where each node of the linked list contains a coefficient and an exponent. The polynomial is represented in the standard form with descending order of exponents.

Input Format

The first line of input consists of an integer n , representing the number of terms in the first polynomial.

The following n lines of input consist of two integers each: the coefficient and the exponent of the term in the first polynomial.

The next line of input consists of an integer m , representing the number of terms in the second polynomial.

The following m lines of input consist of two integers each: the coefficient and the exponent of the term in the second polynomial.

Output Format

The output prints the sum of the coefficients of the polynomials.

Sample Test Case

Input: 3

2 2

3 1

4 0

3

2 2

3 1

4 0

Output: 18

Answer

```
// You are using GCC
#include<stdio.h>
#include<stdlib.h>
typedef struct node{
    int data1,data2;
    int exp;
    struct node *link;
}node;
int main()
{
    int n,m;
    int sum=0;
    struct node no;
    scanf("%d",&n);
    for(int i=0;i<n;i++){
        scanf("%d %d",&no.data1,&no.data2);
        sum+=no.data1;
    }
    scanf("%d",&m);
    for(int i=0;i<m;i++){
```

```
scanf("%d %d",&no.data1,&no.data2);  
sum+=no.data1;  
}  
printf("%d",sum);  
}
```

Status : Correct

Marks : 10/10