PolyLLMai… SubPolyL… Submit

Explorer Debugger Plots

```
struct polynomial {
    int coeff;
    int exp;
    struct polynomial *next;
};
typedef struct polynomial *poly;

poly addTerm(poly head, poly temp)
{
    poly curr,prev;

    curr = head;
    prev = head;

    if( head == NULL)
    {
        return temp;
    }

    while( curr!= NULL && curr->exp > temp->exp  )
    {
        prev = curr;
        curr = curr->next;
    }


    if( curr == NULL )
    {
        prev->next = temp;
        return head;
    }

    if( curr->exp == temp->exp )
    {
        curr->coeff = curr->coeff + temp->coeff;
        return head;
    }


    if( curr->exp < temp->exp )
    {
        if(curr == prev)
        {
```

‹ Prev Reset Submit Next ›

```
            temp->next = curr;
            return temp;
        }

        temp->next = curr;
        prev->next = temp;
        return head;
    }

}

void print(poly head)
{
    poly temp = head;
    while(temp != NULL){
        printf("%d X^ %d ---> ", temp -> coeff, temp -> exp);
        temp = temp -> next;
    }
    printf("NULL\n");
}

poly sub(poly head1, poly head2) {

    poly ans = NULL;


    poly temp = head1;
    while( temp!= NULL )
    {
        poly x = malloc( sizeof( struct polynomial ) );

        x->coeff = temp->coeff;
        x->next = NULL;
        x->exp  = temp->exp;
        ans = addTerm( ans , x );

        temp = temp->next;
    }

    temp = head2;
    while( temp!= NULL )
    {
        poly x = malloc( sizeof( struct polynomial ) );

        x->next = NULL;
```

```
91          x->coeff = -(temp->coeff);
92          x->exp = temp->exp;
93
94          ans = addTerm( ans , x );
95
96          temp = temp->next;
97      }
98
99      return ans;
100
101 }
102
```

Terminal Test cases