

## Create two separate Positive and Negative List form the Inputted List

```

#include<stdio.h>
#include<stdlib.h>
#include<conio.h>
typedef struct linklist
{
    int data;
    struct node *next;
}Node;
Node *creatlist(Node *,int );
void PostiveNumber(Node**,Node*);
void NegativeNumber(Node**,Node*);
void Display(Node *);
int main()
{
    int c;
    printf("Number of elements to be inputed : ");
    scanf("%d",&c);
    printf("\n\t\t\t\tEnter Positive and Negative Numbers\n ");
    Node *head1=creatlist(NULL,c);
    Node *p=head1,*pos=NULL,*neg=NULL;
    Node *t1,*t2;
    printf("\nList\n");
    Display(head1);
    PostiveNumber(&pos,head1);
    printf("\nList Of Positive Numbers\n");
    Display(pos);
    NegativeNumber(&neg,head1);
    printf("\nList of Negative numbers\n");
    Display(neg);
}
Node *creatlist(Node *head,int co)
{
    Node * ptr=head;
    while(co>0)
    {
        Node* node = (Node*)malloc(sizeof(Node));
        printf("\nEnter the element : ");
        scanf("%d",&node->data);
        node->next=NULL;
        if(head==NULL)
        {
            head=node;
            co--;
        }
        else
        {
            ptr=head;
            while(ptr->next!=NULL)
                ptr=ptr->next;
            ptr->next=node;
            co--;
        }
    }
    return head;
}

```

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```

}
void PostiveNumber(Node **pos,Node *head)
{
    Node *ptr=*pos;
    while(head!=NULL)
    {
        int n=head->data;

        if(n>0)
        {
            Node* node = (Node*)malloc(sizeof(Node));
            node->next=NULL;
            node->data=n;
            if(*pos==NULL)
            {
                *pos=node;
            }
            else
            {
                ptr=*pos;
                while(ptr->next!=NULL)
                    ptr=ptr->next;
                ptr->next=node;
            }
        }
        head=head->next;
    }
}

void NegativeNumber(Node **pos,Node *head)
{
    Node *ptr=*pos;
    while(head!=NULL)
    {
        int n=head->data;

        if(n<0)
        {
            Node* node = (Node*)malloc(sizeof(Node));
            node->next=NULL;
            node->data=n;
            if(*pos==NULL)
            {
                *pos=node;
            }
            else
            {
                ptr=*pos;
                while(ptr->next!=NULL)
                    ptr=ptr->next;
                ptr->next=node;
            }
        }
    }
}

```

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```
        }
        head=head->next;
    }

}

Display(Node *head)
{
    Node *ptr=head;
    while(ptr!=NULL)
    {
        printf("%d ",ptr->data);
        ptr=ptr->next;
    }
}
```