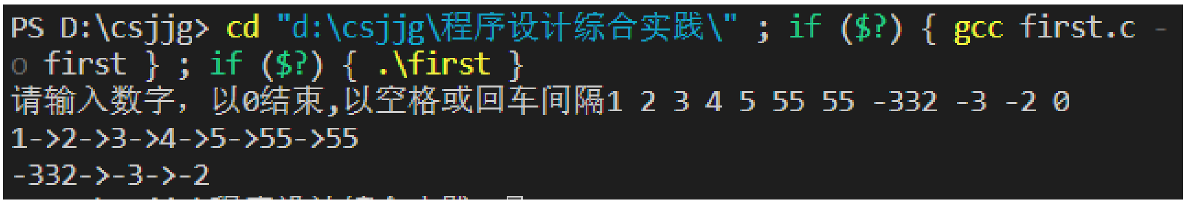
```c
#include <stdio.h>
#include <malloc.h>
#include <stdlib.h>
struct  Node
{
    int data;
    struct Node *next;
};

void Insert (struct Node *l, int x);
void Destory (struct Node *l);
void Print (struct Node *l);
struct Node * NewNode()
{
     struct Node *p;
     p = (struct Node *) malloc (sizeof (struct Node));
     if (p == NULL) {
        printf ("Error : out of memory\n");
        exit (-1);
     }
     return p;
}

int main ()
{
    struct Node *la = NewNode();//正整数的链表
    struct Node *lb = NewNode();//负整数的链表

    la->next = NULL;
    lb->next = NULL;
    int x;
    printf("请输入数字，以0结束,以空格或回车间隔");
    scanf ("%d", &x);
    while(x!=0){
       if(x>0){
         Insert(la, x);
       }else{
         Insert(lb, x);
       }
       scanf ("%d", &x);
    }
    Print(la);
    Print(lb);
    Destory(la);
    Destory(lb);
    return 0;
}
void Insert (struct Node *l, int x)
{
    struct Node *q= NewNode ();
    q->data = x;
    struct Node *p = l;
    while (p->next && x > p->next ->data)
        p = p->next;
    q->next = p ->next ;
    p->next = q;
}
void Destory (struct Node *l)
{
    while (l)
    {
        struct Node *q = l->next;
        free (l);
        l = q;
    }
}
void Print (struct Node *l)
{
    l = l ->next;
    if (l)
    {
        printf ("%d", l->data);
        l = l->next;
    }
    while (l)
    {
        printf ("->%d", l->data);
        l = l->next;
    }
    printf ("\n");
}
```



```
PS D:\csjjg> cd "d:\csjjg\程序设计综合实践\" ; if ($?) { gcc first.c -
o first } ; if ($?) { .\first }
请输入数字，以0结束,以空格或回车间隔1 2 3 4 5 55 55 -332 -3 -2 0
1->2->3->4->5->55->55
-332->-3->-2
```