```
#include<stdio.h>
#include<stdib.h>
#include<stdib.h>
struct node

{
    int info;
    struct node *link;
    struct node *link;

};

typedef struct node *NODE;

NODE getnode()

*

**NODE malloc(sizeof(struct node));

if(x:=NULL)

{
    printf("mem full\n");
    exit(0);
    }

    return x;

}

void freenode(NODE x)

*

**NODE insert(NODE root,int item)

**NODE temp,cur,prev;
    temp=getnode();
    temp=rlink=NULL;
    temp>rlink=NULL;
    temp>rlink=NULL;
```

```
temp > link=NULL;
temp > link=NULL)

temp > link=NULL)

freturn temp;
prev=NULL;
cur=root;
while(cur!=NULL)

f(item<prev=> link=temp;
prev-> link=temp;
else
prev-> return root;

void display(NODE root,int i)

f(int j;
if(root!=NULL)

display(root-> rlink,i+1);
for(j=0;j<i;j+)
printf("%d\n",root-> info);
display(root-> llink,i+1);

printf("%d\n",root-> info);
display(root-> llink,i+1);
}

NODE delete(NODE root,int item)
```

```
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
enter the item
50
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
enter the item
20
1.insert
2.display
3.pre
4.post
5.in
```

```
6.delete
7.exit
enter the choice
1
enter the item
40

1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the item
80

1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the item
80

1.insert
7.exit
enter the item
80

1.insert
80

1.inse
```

```
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
15
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
1
enter the item
70
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the item
70
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
```

```
7.exit
enter the choice
1
enter the item
70

1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
2
90
80
70
50
40
20
15

1.insert
2.display
3.pre
4.post
5.in
6.delete
6.exit
enter the choice
2
enter the choice
2
for the choice
2
for the choice
2
for the choice
6.delete
7.exit
enter the choice
```

```
## Provided State of Control of C
```

```
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
5
15
20
40
50
70
80
90
1.insert
2.display
3.pre
4.post
5.in
6.delete
7.exit
enter the choice
7
...Program finished with exit code 0
Press ENTER to exit console.
```