```
#include <stdio.h>
#include<stdlib.h>
struct Node
};
void display(struct Node*);
void rdisplay(struct Node*);
void sum(struct Node *);
int rsum(struct Node *);
void max(struct Node*);
int rmax(struct Node*);
struct Node* search(struct Node*,int);
int main()
 struct Node *head, *n1, *n2;
 head=(struct Node *)malloc(sizeof(struct Node));
 n1=(struct Node *)malloc(sizeof(struct Node));
 n2=(struct Node *)malloc(sizeof(struct Node));
 head->data=10;
 n1->data=20;
 n1 - next = n2;
 n2->data=40;
  display(head);
 printf("\nRECURSION DISPLAY::\n");
  rdisplay(head);
 sum(head);
 int sum=rsum(head);
 printf("\nRECURSION SUM::%d\n", sum);
 printf("Maximum element::");
 max(head);
  int max=rmax(head);
 printf("\nMaximum using recursion::%d",max);
  printf("\nEnter element to search::");
```

```
scanf("%d", &s);
 printf("%d %p",p->data,p->next);
void display(struct Node *p)
       printf("%d->",p->data);
       p=p->next;
void rdisplay(struct Node *p){
   if(p!=NULL){
       printf("%d->",p->data);
       rdisplay(p->next);
void sum(struct Node *p){
   while(p){
       sum+=p->data;
       p=p->next;
   printf("\nSUM is %d",sum);
int rsum(struct Node* p) {
       int sum=p->data;
void max(struct Node* p){
   int m=p->data;
   while(p){
           m=p->data;
```

```
p=p->next;
   printf("%d",m);
int rmax(struct Node* p){
   if(p==0){
      if(x>p->data){
struct Node* search(struct Node *p,int s){
         return p;
      p=p->next;
```