Student Database Management System - C Project

#include<stdio.h>  
#include<string.h>  
#include<stdlib.h>  
#include<unistd.h>  
  
typedef struct student {  
 int rollno;  
 char name[20];  
 float marks;  
 struct student \*next;  
} sll;  
  
void add\_begin(sll \*\*);  
void print\_node(sll \*);  
void count\_node(sll \*);  
void save\_file(sll \*);  
void add\_end(sll \*\*);  
void read\_file(sll \*\*);  
void reverse\_print(sll \*);  
void delete\_all(sll \*\*);  
void search\_node(sll \*);  
void add\_middle(sll \*\*);  
void sort\_data(sll \*);  
void delete\_node(sll \*\*);  
void reverse\_links(sll \*\*);  
  
int main() {  
 sll \*headptr = 0;  
 int op, c;  
 while(1) {  
 printf("My dear! Enter Beautiful choice  
");  
 printf("1)add\_begin 2)add\_middle 3)add\_end 4)print\_node 5)count\_node 6)save\_file 7)read\_file 8)reverse\_print  
");  
 printf("9)print\_rec 11)delete\_all 12)delete\_node 13)search\_node 14)sort\_data 16)exit  
");  
 scanf("%d", &op);  
 switch(op) {  
 case 1: add\_begin(&headptr); break;  
 case 2: add\_middle(&headptr); break;  
 case 3: add\_end(&headptr); break;  
 case 4: print\_node(headptr); break;  
 case 5: c = count\_node(headptr);  
 printf("total count: %d\n", c); break;  
 case 6: save\_file(headptr); break;  
 case 7: read\_file(&headptr); break;  
 case 8: reverse\_print(headptr); break;  
 case 9: print\_rec(headptr); break;  
 case 10: delete\_all(&headptr); break;  
 case 11: delete\_node(&headptr); break;  
 case 12: search\_node(headptr); break;  
 case 13: sort\_data(headptr); break;  
 case 14: exit(0);  
 default: printf("My Dear! wrong choice");  
 }  
 }  
}  
  
// Definitions of all mentioned functions follow below (add\_begin, add\_middle, add\_end, print\_node, etc.)  
// (Kept concise for this preview. Full functions are included in the actual document.)