#include<stdio.h>

#include<stdlib.h>

#include<string.h>

void add();

void view();

void edit();

void del();

typedef struct hospital

{

char dis[200];

char name[30];

char test[200];

char date[50];

char pno[15];

int tsfee,age,dfee,cno,pdfee;

struct hospital \*next;

}node;

node\* search();

node \*head=0;

node \*prev;

int main()

{

int c;

printf(" \*\*\* WELCOME TO \*\*\*\n");

printf(" DAYANANDA SAGAR HOSPITAL \n");

do

{

printf("\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\nEnter your choice

please:\n\n1. Add new patient record\n2. View all records\n3. Search a patient

record \n4. Edit a patient record\n5. Delete a patient record\n6.

Exit\n\nOption=");

scanf("%d",&c);

switch(c)

{

case 1:

{

add();

}

break;

case 2:

{

view();

}

break;

case 3:

{

node \*t;

t=search();

}

break;

case 4:

{

edit();

}

break;

case 5:

{

del();

}

break;

default:

{printf("\nInvalid choice entered\n");

}

}

}while(c>=1 && c<=5);

printf("\n\n\*\*\*\*\*\*\* HOPE YOU HAD A GOOD DAY \*\*\*\*\*\*\*");

return 0;

} void add()

{

node \*newnode;

newnode=(node\*)malloc(sizeof(node));

printf("\n------- ENTER DETAILS ------ \n\nPatient name : ");

scanf("%s",newnode->name);

printf("Age : ");

scanf("%d",&newnode->age);

printf("Date(dd/mm/yyyy) : ");

scanf("%s",newnode->date);

printf("Mobile number : ");

scanf("%s",newnode->pno);

printf("Cabin Number : ");

scanf("%d",&newnode->cno);

printf("Disease : ");

scanf("%s",newnode->dis);

printf("Tests conducted : ");

scanf("%s",newnode->test);

printf("Test fee : ");

scanf("%d",&newnode->tsfee);

printf("Doctor fee : ");

scanf("%d",&newnode->dfee);

printf("Paid fee : ");

scanf("%d",&newnode->pdfee);

newnode->next=0;

if(head==0)

{

head=newnode;

prev=newnode;

} else

{

prev->next=newnode;

prev=newnode;

}

} void view()

{

if(head==0)

printf("\nNo records present\n");

else

{

node \*temp=head;

printf("\n\n^^^ RECORDS PRESENT ^^^\n---------------\n");

while(temp!=0)

{

printf("Name : %s\n",temp->name);

printf("Age : %d\n",temp->age);

printf("Date : %s\n",temp->date);

printf("Mobile number : %s\n",temp->pno);

printf("Cabin number : %d\n",temp->cno);

printf("Disease : %s\n",temp->dis);

printf("Tests Conducted : %s\n",temp->test);

printf("Tests fee : Rs %d\n",temp->tsfee);

printf("Doctor fee : Rs %d\n",temp->dfee);

printf("Total fee : Rs %d\n",(temp->tsfee)+(temp->dfee));

printf("Paid fee : Rs %d\n",temp->pdfee);

printf("Balance fee : Rs

%d\n---------------\n",(temp->tsfee)+(temp->dfee)-(temp->pdfee));

temp=temp->next;

}

}

} node\* search()

{

if(head==0)

{

printf("\nRecords empty!!!!\n");

return 0;

} else

{

int ch;

printf("\nSearch patient deatails by :\n1. Name\n2. Age\n3. Cabin

number\n4. Disease\n\nEnter your choice of search : ");

scanf("%d",&ch);

switch(ch)

{ case 1:

{

char n[30];

int i=0;

node \*temp=head;

printf("\nEnter name : ");

scanf("%s",n);

while(temp!=0)

{

int r;

r=strcmp(n,temp->name);

if(r==0)

{

printf("\n..................\nName : %s\n",temp->name);

printf("Age : %d\n",temp->age);

printf("Date : %s\n",temp->date);

printf("Mobile number : %s\n",temp->pno);

printf("Cabin number : %d\n",temp->cno);

printf("Disease : %s\n",temp->dis);

printf("Tests Conducted : %s\n",temp->test);

printf("Tests fee : Rs %d\n",temp->tsfee);

printf("Doctor fee : Rs %d\n",temp->dfee);

printf("Total fee : Rs %d\n",(temp->tsfee)+(temp->dfee));

printf("Paid fee : Rs %d\n",temp->pdfee);

printf("Balance fee : Rs

%d\n..................\n",(temp->tsfee)+(temp->dfee)-(temp->pdfee));

i=1+1;

return temp;

} temp=temp->next;

} if(i==0)

{

printf("\nRecord not found \n");

return 0;

}

} break;

case 2:

{

int n;

int i=0;

printf("\nEnter age : ");

scanf("%d",&n);

node \*temp=head;

while(temp!=0)

{

if(temp->age==n)

{

printf("\n..................\nName : %s\n",temp->name);

printf("Age : %d\n",temp->age);

printf("Date : %s\n",temp->date);

printf("Mobile number : %s\n",temp->pno);

printf("Cabin number : %d\n",temp->cno);

printf("Disease : %s\n",temp->dis);

printf("Tests Conducted : %s\n",temp->test);

printf("Tests fee : Rs %d\n",temp->tsfee);

printf("Doctor fee : Rs %d\n",temp->dfee);

printf("Total fee : Rs %d\n",(temp->tsfee)+(temp->dfee));

printf("Paid fee : Rs %d\n",temp->pdfee);

printf("Balance fee : Rs

%d\n..................\n",(temp->tsfee)+(temp->dfee)-(temp->pdfee));

i=i+1;

return temp;

} temp=temp->next;

} if(i==0)

{

printf("\nRecord not found \n");

return 0;

}

}

break;

case 3:

{

int n;

int i=0;

node \*temp=head;

printf("\nEnter cabin number : ");

scanf("%d",&n);

while(temp!=0)

{

if((temp->cno)==n)

{

printf("\n..................\nName : %s\n",temp->name);

printf("Age : %d\n",temp->age);

printf("Date : %s\n",temp->date);

printf("Mobile number : %s\n",temp->pno);

printf("Cabin number : %d\n",temp->cno);

printf("Disease : %s\n",temp->dis);

printf("Tests Conducted : %s\n",temp->test);

printf("Tests fee : Rs %d\n",temp->tsfee);

printf("Doctor fee : Rs %d\n",temp->dfee);

printf("Total fee : Rs %d\n",(temp->tsfee)+(temp->dfee));

printf("Paid fee : Rs %d\n",temp->pdfee);

printf("Balance fee : Rs

%d\n..................\n",(temp->tsfee)+(temp->dfee)-(temp->pdfee));

i=i+1;

return temp;

} temp=temp->next;

} if(i==0)

{

return 0;

printf("\nRecord not found \n");

}

} break;

case 4:

{

char d[200];

int i=0;

node\* temp=head;

printf("\nEnter disease : ");

scanf("%s",d);

while(temp!=0)

{

int r=strcmp(temp->dis,d);

if(r==0)

{

printf("\n..................\nName : %s\n",temp->name);

printf("Age : %d\n",temp->age);

printf("Date : %s\n",temp->date);

printf("Mobile number : %s\n",temp->pno);

printf("Cabin number : %d\n",temp->cno);

printf("Disease : %s\n",temp->dis);

printf("Tests Conducted : %s\n",temp->test);

printf("Tests fee : Rs %d\n",temp->tsfee);

printf("Doctor fee : Rs %d\n",temp->dfee);

printf("Total fee : Rs %d\n",(temp->tsfee)+(temp->dfee));

printf("Paid fee : Rs %d\n",temp->pdfee);

printf("Balance fee : Rs

%d\n..................\n",(temp->tsfee)+(temp->dfee)-(temp->pdfee));

i=i+1;

return temp;

}

temp=temp->next;

} if(i==0)

{

printf("\nRecord not found \n");

return 0;

}

} break;

default:

printf("\nInvalid choice entered \n");

}

}

} void edit()

{

node \*temp=search();

if(temp!=0)

{ int chh,i=0;

do

{

printf("\nDetails that can be edited of the above patient:\n1. Name\n2. Age\n3.

Date\n4. Cabin number\n5. Disease\n6. Tests\n7. Test fee\n8. Doctor fee\n9.

Paid fee \n10. To exit\n\nEnter your choice : ");

scanf("%d",&chh);

switch(chh)

{ case 1:

{

printf("Previous name : %s\n",temp->name);

printf("New name : ");

scanf("%s",temp->name);

} break;

case 2:

{

printf("Previous age : %d\n",temp->age);

printf("New age : ");

scanf("%d",&temp->age);

} break;

case 3:

{

printf("Previous date : %s\n",temp->date);

printf("New date : ");

scanf("%s",temp->date);

} break;

case 4:

{

printf("Previous cabin number : %d\n",temp->cno);

printf("New cabin number : ");

scanf("%d",&temp->cno);

} break;

case 5:

{

printf("Previous disease : %s\n",temp->dis);

printf("New disease : ");

scanf("%s",temp->dis);

} break;

case 6:

{

printf("Previous Tests : %s\n",temp->test);

printf("New Tests : ");

scanf("%s",temp->test);

} break;

case 7:

{

printf("Previous Test fee : Rs %d\n",temp->tsfee);

printf("New Test fee : ");

scanf("%d",&temp->tsfee);

} break;

case 8:

{

printf("Previous Doctor fee : Rs %d\n",temp->dfee);

printf("New Doctor fee : ");

scanf("%d",&temp->dfee);

} break;

case 9:

{

printf("Previous Paid fee : Rs %d\n",temp->pdfee);

printf("New Paid fee : ");

scanf("%d",&temp->pdfee);

}

default:

printf("Invalid choice entered\n");

} }while(chh>=1 && chh<=9);

} } void del()

{

node \*temp=search();

if(temp!=0)

{

int choice;

do

{ printf("\nDo you want to\n1. Delete whole record\n2. Delete name\n3. Delete

Age\n4. Delete date\n5. Mobile number\n6. Cabin number\n7. Tests\n8.

Disease\n9. Test fee\n10. Doctor fee\n11. Paid fee\n12.Stop \n\nEnter choice : ");

scanf("%d",&choice);

switch(choice)

{

case 1:

{

if(temp==head)

{

if(temp->next==0)

{

head=0;

prev=0;

free(temp);

} else { head=head->next;

free(temp);

}

} else

{

node \*p=head;

while(p->next!=temp)

{

p=p->next;

} if(temp->next==0)

{

p->next=0;

prev=p;

free(temp);

} else

{

p->next=temp->next;

free(temp);

}

}

} break;

case 2:

{

strcpy(temp->name,"--");

} break;

case 3:

{

temp->age=0;

} break;

case 4:

{

strcpy(temp->date,"--");

} break;

case 5:

{

strcpy(temp->pno,"--");

} break;

case 6:

{

temp->cno=0;

} break;

case 7:

{

strcpy(temp->test,"--");

} break;

case 8:

{

strcpy(temp->dis,"--");

} break;

case 9:

{

temp->tsfee=0;

} break;

case 10:

{

temp->dfee=0;

} break;

case 11:

{

temp->pdfee=0;

} break;

default:

printf("Invalid choice entered");

} }while(choice>=2 && choice<=11);

}

}