#include <stdio.h>

#include <stdlib.h>

#include <string.h>

struct Case{

char name[30];

char surname[30];

int age;

int sex;

char disease[30];

int date;

struct Case \*next;

};

struct Case \*head;

void add(char n[30],char sn[30],int a,int s,char dis[30], int d)

{

struct Case \*temp;

temp=(struct Case \*)malloc(sizeof(struct Case));

if(!temp)

{

printf("Error alocating mempry..");

}

strcpy(temp->name,n);

strcpy(temp->disease,dis);

strcpy(temp->surname,sn);

temp->age=a;

temp->sex=s;

temp->date=d;

if(head==NULL)

{

temp->next=NULL;

head=temp;

}

else

{

temp->next=head;

head=temp;

}

}

int count()

{

int count=0;

struct Case \*r;

r=head;

while(r!=NULL)

{

count++;

r=r->next;

}

return count;

}

void display()

{

struct Case \*r;

r=head;

if (r==NULL)

return;

printf("Names of all cases:\n");

printf("----------------------------\n");

printf("NAME\t\tSURNAME\n");

printf("----------------------------\n");

while(r!=NULL)

{

printf("%s\t",r->name);

printf("%s\n",r->surname);

r=r->next;

}

printf("----------------------------\n");

}

int main()

{

while(1)

{

int choice,age,sex,date;

char disease[30],name[30],surname[30];

printf("\t\tMENU\n");

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

printf("Enter 1: to add a case\n");

printf("Enter 2: to count cases\n");

printf("Enter 3: to print names of all cases\n");

printf("Enter 4: to exit\n");

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

printf("Please,give your choice:\n");

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("Enter first name: ");

scanf("%s",name);

printf("Enter last name: ");

scanf("%s",surname);

printf("Enter age: ");

scanf("%d",&age);

printf("Enter sex (0 for man or 1 for woman): ");

scanf("%d",&sex);

printf("Enter if there is any underlying disease: ");

scanf("%s",disease);

printf("Enter the record date(united): ");

scanf("%d",&date);

add(name,surname,age,sex,disease,date);

printf("Case added!\n");

break;

case 2:

printf("There are : %d cases\n",count());

break;

case 3:

display();

break;

case 4:

printf("Bye bye!!\n");

return 0;

default:

printf("You entered invalid number...\n");

}

}

}