#include <stdio.h>

#include <string.h>

char x[6][20];

int counter=0;

void add();

void cancel();

void list();

void emergency();

void count();

void countletter(char ch1);

int main()

{

int i;

int pos;

char ch1;

int number=0;

for(i=0;i<6;i++)

{

strcpy(x[i],"\0");

}

while(1)

{

printf("Welcome to Dr.Pepper Dentist Center\n");

scanf("%d",&pos);

switch(pos)

{

case 1:

add();

break;

case 2:

cancel();

break;

case 3:

list();

break;

case 4:

emergency();

break;

case 5:

printf("letter?\n");

getchar();

scanf("%c",&ch1);

countletter(ch1);

//\_fpurge(stdin);

break;

default:

printf("Quit\n");

return 0;

}

}

}

void add()

{

int i;

int flag=0;

char name[20];

printf("Schedule an appointment\n");

if(counter==6)

{

printf("Sorry, there is no free schedule for today\n");

}

else

{

printf("Name:\n");

scanf("%s",name);

for(i=0;flag==0 && i<counter;i++)

{

if(!strcmp(x[i],name))//if a reservation exists with that name, tell the user

{

printf("The appointment for %s has already been reserved\n", name);

flag=1;

}

}

if(flag==0)

{

strcpy(x[counter],name);

printf("You make your appointment for %s at %dPM\n",name,++counter );

}

}

}

void cancel()

{

int i;

int flag=0;

char name[20];

printf("Cancel an appointment\n");

if(counter<=0)

{

printf("No appointment exist\n");

}

else

{

scanf("%s",name);

for(i=0;i<counter && flag==0;i++)

{

if(strcmp(x[i],name)==0)

{

flag=1;

for(i;i<counter;i++)

{

strcpy(x[i],x[i+1]);

}

counter--;

printf("You have cancelled your appointment for %s\n",name);

}

}

if(flag==0)

{

printf("invalid name\n");

}

}

}

void list()

{

int i;

if(counter<=0)

{

printf("No appointment exist\n");

}

else

{

for(i=0;i<6;i++)

{

printf("%dPM: %s\n",i+1,x[i]);

}

}

}

void emergency()

{

int i;

int flag=0;

char name[20];

printf("Schedule an emergency");

printf("Name:\n");

scanf("%s",name);

for(i=0;flag==0 && i<counter;i++)

{

if(!strcmp(x[i],name))//if a reservation exists with that name, tell the user

{

printf("The appointment for %s has already been reserved\n", name);

flag=1;

}

}

if(flag==0)

{

strcpy(x[counter],name);

printf("You make your appointment for %s at %dPM\n",name,++counter );

}

// for(i=1;i<counter;i++)

// {

// strcpy(x[i+1],x[i]);

// }

// counter--;

}

void countletter(char ch1)

{

int number=0;

int i,j;

for(i=0; i<6; i++)

for(j=0; j<strlen(x[i]); j++)

{

if(x[i][j]==ch1)

{

number++;

}

}

printf("found %d occurrences of %c\n", number, ch1);

}