#define \_CRT\_SECURE\_NO\_WARNINGS

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include <time.h>

#define MaxSize 30

struct mydate {

unsigned year;

unsigned month;

unsigned day;

unsigned hour;

unsigned min;

unsigned sec;

};

struct mydate Today() {

struct mydate today;

time\_t rawtime;

struct tm\* timeinfo;

time(&rawtime);

timeinfo = localtime(&rawtime);

today.year = timeinfo->tm\_year + 1900;

today.month = timeinfo->tm\_mon + 1;

today.day = timeinfo->tm\_mday;

today.hour = timeinfo->tm\_hour;

today.min = timeinfo->tm\_min;

today.sec = timeinfo->tm\_sec;

return today;

}

struct guest\_infor

{

char name[8];

int sum;

char time[10];

int number;

char number2[20];

}

guest\_list[MaxSize];

void save\_data(int count)

{

FILE\* fp;

int i, k;

k = count;

fp = fopen("d:\\data.txt", "w");

fwrite(&k, sizeof(int), 1, fp);

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

fwrite(&guest\_list[i], sizeof(struct guest\_infor), 1, fp);

fclose(fp);

}

void read\_data(int\* count)

{

FILE\* fp;

int i, k;

struct guest\_infor st;

k = 0;

if (fopen("d:\\data.txt", "r") == NULL)

{

fp = fopen("e:\\data.txt", "w");

fwrite(&k, sizeof(int), 1, fp);

fclose(fp);

}

fp = fopen("d:\\data.txt", "r");

fread(&k, sizeof(int), 1, fp);

\*count = k;

printf("r=%d", \*count);

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

{

fread(&st, sizeof(struct guest\_infor), 1, fp);

guest\_list[i].number = st.number;

strcpy(guest\_list[i].name, st.name);

guest\_list[i].sum = st.sum;

strcpy(guest\_list[i].time, st.time);

}

fclose(fp);

}

void Insert(int\* count)

{

int i, in\_number;

if (\*count == MaxSize)

{

printf("电话工作量已满！"); return;

}

printf("请输入工作序号：");

scanf("%d", &in\_number);

for (i = 0; i < \*count; i++)

if (guest\_list[i].number == in\_number)

{

printf("该工作序号已存在！"); return;

}

guest\_list[i].number = in\_number;

printf("请输入姓名：");

scanf("%s", guest\_list[i].name);

printf("请输入办公人数：");

scanf("%d", &guest\_list[i].sum);

printf("请输入要拨打的电话号码：");

scanf("%s", guest\_list[i].number2);

printf("请输入拨打电话时间：");

scanf("%s", guest\_list[i].time);

(\*count)++;

save\_data(\*count);

}

void Search(int count)

{

int i, number, flag = 1;

printf("请输入查询的工作序号：");

scanf("%d", &number);

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

if (guest\_list[i].number == number)

{

printf("姓名：%s", guest\_list[i].name);

printf("人数：%d", guest\_list[i].sum);

printf("要拨打的电话号码：%s ", guest\_list[i].number2);

printf("拨打电话时间：%s", guest\_list[i].time);

flag = 0;

return;

}

if (flag == 1)

printf("工作序号不存在：");

}

void Delete(int\* count)

{

int i, j, number, flag = 1;

printf("请输入查询的工作序号：");

scanf("%d", &number);

for (i = 0; i < \*count && flag; i++)

if (guest\_list[i].number == number)

{

for (j = i; j < \*count - 1; j++)

guest\_list[j] = guest\_list[j + 1];

flag = 0;

(\*count)--;

save\_data(\*count);

return;

}

}

void Show(int count)

{

int i;

printf("\n");

printf("工作序号 姓名 人数 要拨打的电话号码 办公时间\n");

printf("%d", count);

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

{

printf("工作序号：%d ", guest\_list[i].number);

printf("姓名：%s ", guest\_list[i].name);

printf("办公人数：%d ", guest\_list[i].sum);

printf("要拨打的电话号码：%s ", guest\_list[i].number2);

printf("拨打电话时间：%s \n", guest\_list[i].time);

}

}

void Update(int count)

{

int i, number, flag = 1;

printf("请输入查询的工作序号：");

scanf("%d", &number);

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

if (guest\_list[i].number == number)

{

printf("请输入姓名：");

scanf("%s", guest\_list[i].name);

printf("请输入办公人数：");

scanf("%d", &guest\_list[i].sum);

printf("请输入电话号码：");

scanf("%s", guest\_list[i].number2);

printf("请输入拨打电话时间：");

scanf("%s", guest\_list[i].time);

}

}

void Menu()

{

printf("\n");

system("pause");

system("cls");

printf("\n");

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

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

printf("\t\t\t\* 学号：20236832 姓名：银子豪 \*\n");

printf("\t\t\t\* 班级：方2305-1 \*\n");

printf("\t\t\t\* 微型小助手 \*\n");

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

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

printf("\t\t\t\* [1]记事功能 \*\n");

printf("\t\t\t\* [2]显示工作功能 \*\n");

printf("\t\t\t\* [3]查询工作功能 \*\n");

printf("\t\t\t\* [4]删除工作功能 \*\n");

printf("\t\t\t\* [5]修改工作信息功能 \*\n");

printf("\t\t\t\* [6]时间显示功能 \*\n");

printf("\t\t\t\* [0]退出 \*\n");

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

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

printf("请选择：\n");

}

int main()

{

int count = 0;

int i = 0;

read\_data(&count);

do

{

Menu();

scanf("%d", &i);

switch (i)

{

case 1:

printf("您选择了记事功能\n");

Insert(&count);

break;

case 2:

printf("您选择了显示工作功能\n");

Show(count);

break;

case 3:

printf("您选择了查询工作功能\n");

Search(count);

break;

case 4:

printf("您选择了删除工作功能\n");

Delete(&count);

break;

case 5:

printf("您选择了修改工作信息功能\n");

Update(count);

break;

case 6:

printf("您选择了时间显示功能：");

struct mydate today = Today();

printf("%4d/%02d/%02d\n", today.year, today.month, today.day);

printf("%2d:%2d:%2d\n", today.hour, today.min, today.sec);

break;

case 0:

printf("您选择了退出功能\n");

break;

default:

printf("输入错误，请重新输入：");

}

} while (i);

return 0;

}