### 通讯录管理系统

**#include<stdio.h>**

**#include<string.h>**

**#include<stdlib.h>**

**typedef struct{**

**char name[20];**

**char phone[15];**

**char email[40];**

**char work[40];**

**char addr[40];**

**// int fenlei;**

**}msg;**

**msg input\_msg()**

**{**

**msg temp;**

**printf("name:");**

**scanf("%s",temp.name);**

**printf("phone:");**

**scanf("%s",temp.phone);**

**printf("email:");**

**scanf("%s",temp.email);**

**printf("work:");**

**scanf("%s",temp.work);**

**printf("addr:");**

**scanf("%s",temp.addr);**

**// while(!(temp.fenlei>=1||temp.fenlei<=5))**

**// {**

**//printf("fenlei(input a int,1-family,2-workmate,3-classmate,4-friends,5-other):");**

**// scanf("%d",&temp.fenlei);**

**//}**

**return temp;**

**}**

**void add()**

**{**

**FILE \*write;**

**msg cur=input\_msg();**

**int fenlei;**

**printf("输入分类（这个人放哪个分类）(input a int,1-family,2-workmate,3-classmate,4-friends,5-other):");**

**scanf("%d",&fenlei);**

**switch(fenlei)**

**{**

**case 1:write=fopen("txl/family.txt","a");break;**

**case 2:write=fopen("txl/workmate.txt","a");break;**

**case 3:write=fopen("txl/classmate.txt","a");break;**

**case 4:write=fopen("txl/friends.txt","a");break;**

**case 5:write=fopen("txl/other.txt","a");break;**

**}**

**if(!write)**

**printf("file open failed\n");**

**fprintf(write,"%20s%15s%40s%40s%40s",cur.name,cur.phone,cur.email,cur.work,cur.addr);**

**fclose(write);**

**}**

**int delet()**

**{**

**char name[20];**

**int fenlei;**

**msg cur;**

**msg\* all;**

**int file\_len=0;**

**int check;**

**FILE\* read;**

**FILE\* write;**

**int i,j;**

**printf("输入分类（这个人在哪个分类）:");**

**scanf("%d",&fenlei);**

**printf("input the name you want to delete:");**

**scanf("%s",name);**

**switch(fenlei)**

**{**

**case 1:read=fopen("txl/family.txt","r");break;**

**case 2:read=fopen("txl/workmate.txt","r");break;**

**case 3:read=fopen("txl/classmate.txt","r");break;**

**case 4:read=fopen("txl/friends.txt","r");break;**

**case 5:read=fopen("txl/other.txt","r");break;**

**}**

**if(!read)**

**printf("file open failed\n");**

**while(!feof(read))**

**{**

**fscanf(read,"%s%s%s%s%s",cur.name,cur.phone,cur.email,cur.work,cur.addr);**

**file\_len++;**

**}**

**check=file\_len;**

**//file\_len--;**

**all=(msg\*)malloc(file\_len\*sizeof(msg));**

**rewind(read);**

**for(i=0;i<file\_len;i++)**

**{**

**fscanf(read,"%s%s%s%s%s",all[i].name,all[i].phone,all[i].email,all[i].work,all[i].addr);**

**}**

**fclose(read);**

**for(i=0;i<file\_len;i++)**

**{**

**if(!strcmp(all[i].name,name))**

**{**

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

**all[j]=all[j+1];**

**file\_len--;**

**break;**

**}**

**}**

**if(check==file\_len)**

**{**

**printf("this man is not exit\n");**

**return 0;**

**}**

**switch(fenlei)**

**{**

**case 1:write=fopen("txl/family.txt","w");break;**

**case 2:write=fopen("txl/workmate.txt","w");break;**

**case 3:write=fopen("txl/classmate.txt","w");break;**

**case 4:write=fopen("txl/friends.txt","w");break;**

**case 5:write=fopen("txl/other.txt","w");break;**

**}**

**if(!write)**

**printf("file open failed2\n");**

**for(i=0;i<file\_len;i++)**

**{**

**fprintf(write,"%20s%15s%40s%40s%40s",all[i].name,all[i].phone,all[i].email,all[i].work,all[i].addr);**

**}**

**fclose(write);**

**return 1;**

**}**

**int change()**

**{**

**char name[20];**

**int fenlei;**

**msg cur;**

**msg\* all;**

**int file\_len=0;**

**int check=0;**

**FILE\* read;**

**FILE\* write;**

**int i,j;**

**printf("输入分类（这个人在哪个分类）:");**

**scanf("%d",&fenlei);**

**printf("input the name you want to change:");**

**scanf("%s",name);**

**switch(fenlei)**

**{**

**case 1:read=fopen("txl/family.txt","r");break;**

**case 2:read=fopen("txl/workmate.txt","r");break;**

**case 3:read=fopen("txl/classmate.txt","r");break;**

**case 4:read=fopen("txl/friends.txt","r");break;**

**case 5:read=fopen("txl/other.txt","r");break;**

**}**

**if(!read)**

**printf("file open failed\n");**

**while(!feof(read))**

**{**

**fscanf(read,"%s%s%s%s%s",cur.name,cur.phone,cur.email,cur.work,cur.addr);**

**file\_len++;**

**}**

**all=(msg\*)malloc(file\_len\*sizeof(msg));**

**rewind(read);**

**for(i=0;i<file\_len;i++)**

**{**

**fscanf(read,"%s%s%s%s%s",all[i].name,all[i].phone,all[i].email,all[i].work,all[i].addr);**

**}**

**fclose(read);**

**for(i=0;i<file\_len;i++)**

**{**

**if(!strcmp(all[i].name,name))**

**{**

**check=1;**

**break;**

**}**

**}**

**if(check==0)**

**{**

**printf("the man is not exit\n");**

**return 0;**

**}**

**cur=input\_msg();**

**all[i]=cur;**

**switch(fenlei)**

**{**

**case 1:write=fopen("txl/family.txt","w");break;**

**case 2:write=fopen("txl/workmate.txt","w");break;**

**case 3:write=fopen("txl/classmate.txt","w");break;**

**case 4:write=fopen("txl/friends.txt","w");break;**

**case 5:write=fopen("txl/other.txt","w");break;**

**}**

**if(!write)**

**printf("file open failed2\n");**

**for(i=0;i<file\_len;i++)**

**{**

**fprintf(write,"%20s%15s%40s%40s%40s",all[i].name,all[i].phone,all[i].email,all[i].work,all[i].addr);**

**}**

**fclose(write);**

**return 1;**

**}**

**void lookfor()**

**{**

**char name[20];**

**int fenlei;**

**msg cur;**

**msg\* all;**

**int file\_len=0;**

**int check=0;**

**FILE\* read;**

**//FILE\* write;**

**int i;**

**int way;**

**printf("输入分类（这个人在哪个分类）:");**

**scanf("%d",&fenlei);**

**//printf("input the name you want to change:");**

**//scanf("%s",name);**

**switch(fenlei)**

**{**

**case 1:read=fopen("txl/family.txt","r");break;**

**case 2:read=fopen("txl/workmate.txt","r");break;**

**case 3:read=fopen("txl/classmate.txt","r");break;**

**case 4:read=fopen("txl/friends.txt","r");break;**

**case 5:read=fopen("txl/other.txt","r");break;**

**}**

**if(!read)**

**printf("file open failed\n");**

**while(!feof(read))**

**{**

**fscanf(read,"%s%s%s%s%s",cur.name,cur.phone,cur.email,cur.work,cur.addr);**

**file\_len++;**

**}**

**all=(msg\*)malloc(file\_len\*sizeof(msg));**

**rewind(read);**

**for(i=0;i<file\_len;i++)**

**{**

**fscanf(read,"%s%s%s%s%s",all[i].name,all[i].phone,all[i].email,all[i].work,all[i].addr);**

**}**

**fclose(read);**

**printf("输入查询方式(1,name 2,phone)：");**

**scanf("%d",&way);**

**if(way==1)**

**{**

**printf("输入你想查询的姓名：");**

**scanf("%s",name);**

**for(i=0;i<file\_len;i++)**

**{**

**if(!strcmp(all[i].name,name))**

**{**

**check=1;**

**break;**

**}**

**}**

**if(check==0)**

**{**

**printf("the man is not exit\n");**

**}**

**else**

**{**

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

**printf("%s\n",all[i].name);**

**printf("%s\n",all[i].phone);**

**printf("%s\n",all[i].email);**

**printf("%s\n",all[i].work);**

**printf("%s\n",all[i].addr);**

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

**}**

**}**

**if(way==2)**

**{**

**printf("输入你想查询的电话号码：");**

**scanf("%s",name);**

**for(i=0;i<file\_len;i++)**

**{**

**if(!strcmp(all[i].phone,name))**

**{**

**check=1;**

**break;**

**}**

**}**

**if(check==0)**

**{**

**printf("the man is not exit\n");**

**}**

**else**

**{**

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

**printf("%s\n",all[i].name);**

**printf("%s\n",all[i].phone);**

**printf("%s\n",all[i].email);**

**printf("%s\n",all[i].work);**

**printf("%s\n",all[i].addr);**

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

**}**

**}**

**}**

**void main()**

**{**

**int cmd;**

**printf("输入命令：\n1，增加记录\n2，删除记录\n3，修改记录\n4，查询记录\n0，退出\n");**

**scanf("%d",&cmd);**

**while(cmd!=0)**

**{**

**switch(cmd)**

**{**

**case 1:add();break;**

**case 2:delet();break;**

**case 3:change();break;**

**case 4:lookfor();break;**

**default:printf("bad cammond\n");break;**

**}**

**printf("输入命令：\n1，增加记录\n2，删除记录\n3，修改记录\n4，查询记录\n0，退出\n");**

**scanf("%d",&cmd);**

**}**

**}**