#include"用户信息zth.h";

#include<iostream>

#include<time.h>

#include<typeinfo>

#pragma warning(disable : 4996)；

using namespace std;

bool qqfriendlist[100][100] = { false };//qq列表

bool qqgrouplist[100][100];//qq群列表

int qqlevel[100][100];//竖行人，横行对应群等级//1-群员，2-管理员，3-群主

bool qqjoinin[100][100];//申请表

bool weixinfriendlist[100][100];

int qqgroupnumber=-1;//(0-99)//比实际少1

int qqidnumber=-1;//(0-99);//比实际少1

qqUser userlist[100];

int getmytime(){

int a, b, c,longtime;

time\_t t;

struct tm \* lt;

time(&t);//获取时间戳。

lt = localtime(&t);//转为时间结构

a = lt->tm\_hour, b = lt->tm\_min, c = lt->tm\_sec;

cout <<"时间:" <<a << ":"<<b <<":"<< c << endl;

longtime = a \* 10000 + b \* 100 + c;

return longtime;

}

qqUser createqq() {

system("cls");

qqUser exam;

qqidnumber++;

exam.qqID = qqidnumber;

cout << "注册信息" << endl;

cout << "create qqnickname:"<<endl;

cin >> exam.qqnickname;

cout << "qqnickname:" << exam.qqnickname << " has been created" << endl;

cout << "create birthday:year/month/day"<<endl;

cin >> exam.qqbirthday;

cout << "birthday:" <<exam.qqbirthday<< endl;

cout << "create local:" << endl;

cin >> exam.qqlocal;

cout << "local:" << exam.qqlocal << endl;

exam.changeqqflag();

exam.qqyear = getmytime();

cout << "qqyear:" << exam.qqyear << endl;

cout << "注册已完成，请获取你的登录编号:";

cout<<exam.qqID<<endl;

system("PAUSE");

return exam;

}

qqUser idfind(int i) {

int p;

qqUser exam;

for (p = 0;p <= qqidnumber;p++) {

if (userlist[p].qqID == i) {

cout << "找到用户，准备登录......" << endl;

system("PAUSE");

return userlist[p];

}

}

cout << "未找到该用户，请创建" << endl;

system("PAUSE");

}

void addqqfriend(qqUser &exam) {//添加好友

system("cls");

int i,number;

cout << "需要添加的好友编号：" ;

cin >> number;//i<100

i = number - 1;

if (qqfriendlist[exam.qqID][i] != 1&&i<=qqidnumber) {

qqfriendlist[exam.qqID][i] = 1;//竖行代表当前账户

cout << "你与" << number << "号好友关系已建立" << endl;

system("PAUSE");

}

else if (qqfriendlist[exam.qqID][i] == 1) {

cout << "已建立好友关系，请勿重复操作" << endl;

system("PAUSE");

}

if (i > qqidnumber) {

cout << "该用户不存在" << endl;

system("PAUSE");

}

}

void deleteqqfriend(qqUser &exam) {//删除好友

system("cls");

int i, number;

cout << "输入需要删除的好友编号" ;

cin >> number;

i = number - 1;

if (qqfriendlist[exam.qqID][i] == 1) {

qqfriendlist[exam.qqID][i] = 0;

cout << "你与" << number << "号好友关系已删除" << endl;

system("PAUSE");

}

else if (qqfriendlist[exam.qqID][i] == 0) {

cout << "你与该好友尚未建立好友关系" << endl;

system("PAUSE");

}

}

void findqqfriend(qqUser &exam){//找到所有好友

int i, number=0;

for (i = 0;i <=qqidnumber;i++) {

if ((qqfriendlist[exam.qqID][i] == 1)&& (qqfriendlist[i][exam.qqID]==0) ){

cout << "你与" << i + 1 << "号已建立单边好友关系"<<endl;

number++;

}

else if ((qqfriendlist[exam.qqID][i] == 1) && (qqfriendlist[i][exam.qqID] == 1)) {

cout << "你与" << i + 1 << "号已建立双边好友关系"<<endl;

number++;

}

}

if (number == 0) {

cout << "你未与任何人建立好友关系" << endl;

}

}

int createqqgroup(qqUser &exam) {//创群

int number;

qqgroupnumber++;

cout << "你想创建一个新群？" << endl;

qqgrouplist[exam.qqID][qqgroupnumber] = 1;//竖行为用户，行为群号

number = qqgroupnumber + 1001;

cout << "群号为" << number << "的群已建立" << endl;

qqlevel[exam.qqID][qqgroupnumber] = 3;

getchar();

return number;

}

void joinqqgroup(qqUser &exam) {//加群

int i, number;

cout << "你想加入几号群？（10XX）";

cin >> number;

i = number - 1 - 1000;

if (i > qqgroupnumber) {

cout << "该群还未建立" << endl;

}

if (i <= qqgroupnumber) {

qqjoinin[exam.qqID][qqgroupnumber] = 1;

}

}

void findqqgroup(qqUser &exam){

int i,number=0;

for (i = 0;i <= qqgroupnumber;i++) {

if (qqgrouplist[exam.qqID][i] == 1) {

cout << "你在" << i + 1001 << "号群内" << endl;

number++;

}

}

if (number == 0) {

cout << "你没有加入任何群"<<endl;

}

}

void qqgroupmanage(qqUser &exam, int i) {//i为群号//群管理

int m, p, q, t;//m记录数组位置，p为踢出成员编号，q为循环变量,t为加入是否同意

m = i - 1001;

int n;

if (m > qqgroupnumber) {

cout << "该群还未建立" << endl;

return;

}

if (qqgrouplist[exam.qqID][m] == 0) {

cout << "你未加入此群" << endl;

return;

}

if (m <= qqgroupnumber) {

if (qqlevel[exam.qqID][m] == 1) {

cout << "按1退出群，按2返回主菜单"<<endl;

cin >> n;

if (n == 1) {

qqgrouplist[exam.qqID][m] = 0;

cout << "你已退出" << i << "号群" << endl;

qqlevel[exam.qqID][m] = 0;

}

if (n == 2) {

return;

}

}

if (qqlevel[exam.qqID][m] == 2) {

qqlevelstart:

int b = 0;//申请个数

system("cls");

cout << "按1处理入群申请，按2踢出群成员，按3退出群，按4返回主菜单" << endl;

cin >> n;

if (n == 1) {

for (q = 0;q <= qqidnumber;q++) {

if (qqjoinin[q][m] == 1) {

cout << "编号为" << q << "的用户申请加入群" << endl;

cout << "同意按1，不同意按0" << endl;

cin >> t;

if (t == 0) {

qqjoinin[q][m] = 0;

cout << "编号为" << q << "的用户已被你拒绝入群";

b++;

}

if (t == 1) {

qqjoinin[q][m] =0;

qqgrouplist[q][m] = 1;

cout << "允许编号为" << q << "的用户加入群";

qqlevel[q][m] = 1;//初始化等级为群员

b++;

}

}

}

if (b == 0) {

cout << "没有人申请进入" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (b != 0) {

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 2) {

cout << "请输入需要踢出的成员编号：";

cin >> p;

if (qqgrouplist[p][m] == 1 && p != exam.qqID&&qqlevel[p][m] == 1) {

qqgrouplist[p][m] = 0;

cout << "成员" << p << "已踢出";

system("PAUSE");

goto qqlevelstart;

}

else if (qqgrouplist[p][m] == 1 && p != exam.qqID&&qqlevel[p][m] != 1) {

cout << "你无法踢出管理员或群主" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (qqgrouplist[p][m] == 0) {

cout << "该用户不在群内" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (p == exam.qqID) {

cout << "你不能踢出自己" << endl;

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 3) {

qqgrouplist[exam.qqID][m] = 0;

cout << "你已退出" << i << "号群" << endl;

qqlevel[exam.qqID][m] = 0;

system("PAUSE");

return;

}

if (n == 4) {

return;

}

}

if (qqlevel[exam.qqID][m] == 3) {

qqlevel2start:

int b = 0;

system("cls");

cout << "按1处理入群申请，按2管理群员等级，按3踢出群成员或管理员，按4退出群，按5返回主菜单" << endl;

cin >> n;

if (n == 1) {

for (q = 0;q <= qqidnumber;q++) {

if (qqjoinin[q][m] == 1) {

cout << "编号为" << q << "的用户申请加入群" << endl;

cout << "同意按1，不同意按0" << endl;

cin >> t;

if (t == 0) {

qqjoinin[q][m] = 0;

cout << "编号为" << q << "的用户已被你拒绝入群";

b++;

}

if (t == 1) {

qqjoinin[q][m] = 0;

qqgrouplist[q][m] = 1;

cout << "允许编号为" << q << "的用户加入群";

qqlevel[q][m] = 1;//初始化等级为群员

b++;

}

}

}

if (b == 0) {

cout << "没有人申请进入" << endl;

system("PAUSE");

goto qqlevel2start;

}

else if (b != 0) {

system("PAUSE");

goto qqlevel2start;

}

}

if (n == 2) {

qqlevel3start:

system("cls");

cout << "你想对群员进行何种操作？1-升为管理员，2-降为群员,3-升为群主，自己降级为管理员，4-返回" << endl;

cin >> n;

if (n == 1) {

cout << "你想晋升的群员编号是：" << endl;

cin >> n;

if (qqgrouplist[n][m] == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (n ==exam.qqID) {

cout << "你已是群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 2) {

cout << "该用户已经是该群的管理员" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 1) {

cout << "编号为" << n << "的用户升为了管理员" << endl;

qqlevel[n][m] = 2;

system("PAUSE");

goto qqlevel3start;

}

}

if (n == 2) {

cout << "你想降为群员的用户编号为：" ;

cin >> n;

if (qqgrouplist[n][m] == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (n == exam.qqID) {

cout << "你已是群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 1) {

cout << "该用户已经是该群的群员" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 2) {

cout << "编号为" << n << "的用户降为了群员" << endl;

qqlevel[n][m] = 1;

system("PAUSE");

goto qqlevel3start;

}

}

if (n == 3) {

cout << "你想晋升为群主的用户是：（你将降为管理员）：";

cin >> n;

if (qqgrouplist[n][m] == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 3) {

cout << "你已经是该群的群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 ) {

cout << "编号为" << n << "的用户升为了群主" << endl;

qqlevel[n][m] = 3;

qqlevel[exam.qqID][m] = 2;

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 4) {

return;

}

}

if (n == 3) {

cout << "请输入需要踢出的成员编号：";

cin >> p;

if (qqgrouplist[p][m] == 1 && p != exam.qqID) {

qqgrouplist[p][m] = 0;

cout << "成员" << p << "已踢出";

system("PAUSE");

goto qqlevel2start;

}

else if (qqgrouplist[p][m] == 0) {

cout << "该用户不在群内" << endl;

system("PAUSE");

goto qqlevel2start;

}

else if (p == exam.qqID) {

cout << "你不能踢出自己" << endl;

system("PAUSE");

goto qqlevel2start;

}

}

if (n == 4) {

qqgrouplist[exam.qqID][m] = 0;

cout << "你已退出" << i << "号群" << endl;

qqlevel[exam.qqID][m] = 0;

for (q = 0;q <= qqidnumber;q++) {

if (qqlevel[q][m] == 2) {

qqlevel[q][m] = 3;

cout << "编号为" << q << "的用户已从管理员升为群主";

break;

}

if (qqlevel[q][m] == 1) {

qqlevel[q][m] = 3;

cout << "由于没有管理员，编号为" << q << "的用户已从群员升为群主";

break;

}

}

system("PAUSE");

return;

}

if (n == 5) {

return;

}

}

}

}

void menu(qqUser &exam) {

int n;

start:

system("cls");

cout << "1-查看好友列表" << endl;

cout << "2-查看群列表" << endl;

cout << "3-登录其他账号" << endl;

cout << "4-返回平台" << endl;

cin >> n;

if (n == 1) {

friendstart:

system("cls");

findqqfriend(exam);

cout << "你想对好友列表进行什么操作？"<<endl;

cout << "1-添加好友" << endl;

cout << "2-删除好友" << endl;

cout << "3-返回菜单" << endl;

cin >> n;

if (n == 1) {

addqqfriend(exam);

goto friendstart;

}

if (n == 2) {

deleteqqfriend(exam);

goto friendstart;

}

if (n == 3) {

goto start;

}

}

if (n == 2) {

groupstart:

system("cls");

}

if(n == 4) {

return;

}

}

void loading() {

while(1){

system("cls");

int n;

qqUser exam;

cout << "1-登录,2-创建新账号"<<endl;

cin >> n;

system("cls");

if (n == 1) {

cout << "输入登录编号" << endl;

cin >> n;

exam=idfind(n);

menu(exam);

}

else if (n == 2) {

cout << "准备创建新用户"<<endl;

cout << "1-创建" << endl;

cout << "2-返回" << endl;

cin >> n;

if (n == 1) {

cout << "前往注册界面..." << endl;

system("PAUSE");

userlist[qqidnumber]=createqq();

cout << "准备前往登录界面" << endl;

system("PAUSE");

}

}

}

}

int main() {

qqUser aa,bb;

aa.qqID = 1;

bb.qqID = 2;

userlist[0] = aa;

userlist[1] = bb;

qqidnumber = 1;

loading();

return 0;

}

2.0\\

#include"用户信息zth.h";

#include<iostream>

#include<time.h>

#include<typeinfo>

#pragma warning(disable : 4996)；

using namespace std;

bool qqfriendlist[100][100] = { false };//qq列表

bool qqgrouplist[100][100];//qq群列表

int qqlevel[100][100];//竖行人，横行对应群等级//1-群员，2-管理员，3-群主

bool qqjoinin[100][100];//申请表

bool weixinfriendlist[100][100];

int qqgroupnumber;//(0-99)//比实际少1

int qqidnumber;//(0-99);//比实际少1

qqUser userlist[100];

int getmytime(){

int a, b, c,longtime;

time\_t t;

struct tm \* lt;

time(&t);//获取时间戳。

lt = localtime(&t);//转为时间结构

a = lt->tm\_hour, b = lt->tm\_min, c = lt->tm\_sec;

cout <<"时间:" <<a << ":"<<b <<":"<< c << endl;

longtime = a \* 10000 + b \* 100 + c;

return longtime;

}

qqUser createqq() {

system("cls");

qqUser exam;

qqidnumber++;

exam.qqID = qqidnumber;//第一个为0

cout << "注册信息" << endl;

cout << "create qqnickname:"<<endl;

cin >> exam.qqnickname;

cout << "qqnickname:" << exam.qqnickname << " has been created" << endl;

cout << "create birthday:year/month/day"<<endl;

cin >> exam.qqbirthday;

cout << "birthday:" <<exam.qqbirthday<< endl;

cout << "create local:" << endl;

cin >> exam.qqlocal;

cout << "local:" << exam.qqlocal << endl;

exam.changeqqflag();

exam.qqyear = getmytime();

cout << "qqyear:" << exam.qqyear << endl;

cout << "注册已完成，请获取你的登录编号:";

cout<<exam.qqID<<endl;

system("PAUSE");

return exam;

}

qqUser idfind(int i) {

int p;

for (p = 0;p <= qqidnumber;p++) {

if (userlist[p].qqID == i) {

cout << "找到用户，准备登录......" << endl;

system("PAUSE");

return userlist[p];

}

}

cout << "未找到该用户，请创建" << endl;

system("PAUSE");

}

void addqqfriend(qqUser &exam) {//添加好友

system("cls");

int i,number;

cout << "需要添加的好友编号：" ;

cin >> number;//i<100

i = number;

if (qqfriendlist[exam.qqID][i] != 1&&i<=qqidnumber) {

qqfriendlist[exam.qqID][i] = 1;//竖行代表当前账户

cout << "你与" << number << "号好友关系已建立" << endl;

system("PAUSE");

}

else if (qqfriendlist[exam.qqID][i] == 1) {

cout << "已建立好友关系，请勿重复操作" << endl;

system("PAUSE");

}

if (i > qqidnumber) {

cout << "该用户不存在" << endl;

system("PAUSE");

}

}

void deleteqqfriend(qqUser &exam) {//删除好友

system("cls");

int i, number;

cout << "输入需要删除的好友编号" ;

cin >> number;

i = number;

if (qqfriendlist[exam.qqID][i] == 1) {

qqfriendlist[exam.qqID][i] = 0;

cout << "你与" << number << "号好友关系已删除" << endl;

system("PAUSE");

}

else if (qqfriendlist[exam.qqID][i] == 0) {

cout << "你与该好友尚未建立好友关系" << endl;

system("PAUSE");

}

}

void findqqfriend(qqUser &exam){//找到所有好友

system("cls");

int i, number=0;

for (i = 0;i <=qqidnumber;i++) {

if ((qqfriendlist[exam.qqID][i] == 1)&& (qqfriendlist[i][exam.qqID]==0) ){

cout << "你与" << i << "号已建立单边好友关系"<<endl;

number++;

}

else if ((qqfriendlist[exam.qqID][i] == 1) && (qqfriendlist[i][exam.qqID] == 1)&&(i!=exam.qqID) ){

cout << "你与" << i << "号已建立双边好友关系"<<endl;

number++;

}

}

if (number == 0) {

cout << "你未与任何人建立好友关系" << endl;

}

system("PAUSE");

}

int createqqgroup(qqUser &exam) {//创群

int number;

qqgroupnumber++;

cout << "你想创建一个新群？" << endl;

qqgrouplist[exam.qqID][qqgroupnumber] = 1;//竖行为用户，行为群号

number = qqgroupnumber + 1001;

cout << "群号为" << number << "的群已建立" << endl;

qqlevel[exam.qqID][qqgroupnumber] = 3;

getchar();

return number;

}

void joinqqgroup(qqUser &exam) {//加群

int i, number;

cout << "你想加入几号群？（10XX）";

cin >> number;

i = number - 1 - 1000;

if (i > qqgroupnumber) {

cout << "该群还未建立" << endl;

}

if (i <= qqgroupnumber) {

qqjoinin[exam.qqID][qqgroupnumber] = 1;

}

}

void findqqgroup(qqUser &exam){

int i,number=0;

for (i = 0;i <= qqgroupnumber;i++) {

if (qqgrouplist[exam.qqID][i] == 1) {

cout << "你在" << i + 1001 << "号群内" << endl;

number++;

}

}

if (number == 0) {

cout << "你没有加入任何群"<<endl;

}

}

void qqgroupmanage(qqUser &exam, int i) {//i为群号//群管理

int m, p, q, t;//m记录数组位置，p为踢出成员编号，q为循环变量,t为加入是否同意

m = i - 1001;

int n;

if (m > qqgroupnumber) {

cout << "该群还未建立" << endl;

return;

}

if (qqgrouplist[exam.qqID][m] == 0) {

cout << "你未加入此群" << endl;

return;

}

if (m <= qqgroupnumber) {

if (qqlevel[exam.qqID][m] == 1) {

cout << "按1退出群，按2返回主菜单"<<endl;

cin >> n;

if (n == 1) {

qqgrouplist[exam.qqID][m] = 0;

cout << "你已退出" << i << "号群" << endl;

qqlevel[exam.qqID][m] = 0;

}

if (n == 2) {

return;

}

}

if (qqlevel[exam.qqID][m] == 2) {

qqlevelstart:

int b = 0;//申请个数

system("cls");

cout << "按1处理入群申请，按2踢出群成员，按3退出群，按4返回主菜单" << endl;

cin >> n;

if (n == 1) {

for (q = 0;q <= qqidnumber;q++) {

if (qqjoinin[q][m] == 1) {

cout << "编号为" << q << "的用户申请加入群" << endl;

cout << "同意按1，不同意按0" << endl;

cin >> t;

if (t == 0) {

qqjoinin[q][m] = 0;

cout << "编号为" << q << "的用户已被你拒绝入群";

b++;

}

if (t == 1) {

qqjoinin[q][m] =0;

qqgrouplist[q][m] = 1;

cout << "允许编号为" << q << "的用户加入群";

qqlevel[q][m] = 1;//初始化等级为群员

b++;

}

}

}

if (b == 0) {

cout << "没有人申请进入" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (b != 0) {

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 2) {

cout << "请输入需要踢出的成员编号：";

cin >> p;

if (qqgrouplist[p][m] == 1 && p != exam.qqID&&qqlevel[p][m] == 1) {

qqgrouplist[p][m] = 0;

cout << "成员" << p << "已踢出";

system("PAUSE");

goto qqlevelstart;

}

else if (qqgrouplist[p][m] == 1 && p != exam.qqID&&qqlevel[p][m] != 1) {

cout << "你无法踢出管理员或群主" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (qqgrouplist[p][m] == 0) {

cout << "该用户不在群内" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (p == exam.qqID) {

cout << "你不能踢出自己" << endl;

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 3) {

qqgrouplist[exam.qqID][m] = 0;

cout << "你已退出" << i << "号群" << endl;

qqlevel[exam.qqID][m] = 0;

system("PAUSE");

return;

}

if (n == 4) {

return;

}

}

if (qqlevel[exam.qqID][m] == 3) {

qqlevel2start:

int b = 0;

system("cls");

cout << "按1处理入群申请，按2管理群员等级，按3踢出群成员或管理员，按4退出群，按5返回主菜单" << endl;

cin >> n;

if (n == 1) {

for (q = 0;q <= qqidnumber;q++) {

if (qqjoinin[q][m] == 1) {

cout << "编号为" << q << "的用户申请加入群" << endl;

cout << "同意按1，不同意按0" << endl;

cin >> t;

if (t == 0) {

qqjoinin[q][m] = 0;

cout << "编号为" << q << "的用户已被你拒绝入群";

b++;

}

if (t == 1) {

qqjoinin[q][m] = 0;

qqgrouplist[q][m] = 1;

cout << "允许编号为" << q << "的用户加入群";

qqlevel[q][m] = 1;//初始化等级为群员

b++;

}

}

}

if (b == 0) {

cout << "没有人申请进入" << endl;

system("PAUSE");

goto qqlevel2start;

}

else if (b != 0) {

system("PAUSE");

goto qqlevel2start;

}

}

if (n == 2) {

qqlevel3start:

system("cls");

cout << "你想对群员进行何种操作？1-升为管理员，2-降为群员,3-升为群主，自己降级为管理员，4-返回" << endl;

cin >> n;

if (n == 1) {

cout << "你想晋升的群员编号是：" << endl;

cin >> n;

if (qqgrouplist[n][m] == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (n ==exam.qqID) {

cout << "你已是群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 2) {

cout << "该用户已经是该群的管理员" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 1) {

cout << "编号为" << n << "的用户升为了管理员" << endl;

qqlevel[n][m] = 2;

system("PAUSE");

goto qqlevel3start;

}

}

if (n == 2) {

cout << "你想降为群员的用户编号为：" ;

cin >> n;

if (qqgrouplist[n][m] == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (n == exam.qqID) {

cout << "你已是群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 1) {

cout << "该用户已经是该群的群员" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 2) {

cout << "编号为" << n << "的用户降为了群员" << endl;

qqlevel[n][m] = 1;

system("PAUSE");

goto qqlevel3start;

}

}

if (n == 3) {

cout << "你想晋升为群主的用户是：（你将降为管理员）：";

cin >> n;

if (qqgrouplist[n][m] == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 && qqlevel[n][m] == 3) {

cout << "你已经是该群的群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqgrouplist[n][m] == 1 ) {

cout << "编号为" << n << "的用户升为了群主" << endl;

qqlevel[n][m] = 3;

qqlevel[exam.qqID][m] = 2;

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 4) {

return;

}

}

if (n == 3) {

cout << "请输入需要踢出的成员编号：";

cin >> p;

if (qqgrouplist[p][m] == 1 && p != exam.qqID) {

qqgrouplist[p][m] = 0;

cout << "成员" << p << "已踢出";

system("PAUSE");

goto qqlevel2start;

}

else if (qqgrouplist[p][m] == 0) {

cout << "该用户不在群内" << endl;

system("PAUSE");

goto qqlevel2start;

}

else if (p == exam.qqID) {

cout << "你不能踢出自己" << endl;

system("PAUSE");

goto qqlevel2start;

}

}

if (n == 4) {

qqgrouplist[exam.qqID][m] = 0;

cout << "你已退出" << i << "号群" << endl;

qqlevel[exam.qqID][m] = 0;

for (q = 0;q <= qqidnumber;q++) {

if (qqlevel[q][m] == 2) {

qqlevel[q][m] = 3;

cout << "编号为" << q << "的用户已从管理员升为群主";

break;

}

if (qqlevel[q][m] == 1) {

qqlevel[q][m] = 3;

cout << "由于没有管理员，编号为" << q << "的用户已从群员升为群主";

break;

}

}

system("PAUSE");

return;

}

if (n == 5) {

return;

}

}

}

}

void menu(qqUser &exam) {

int n;

start:

system("cls");

cout << "1-查看好友操作列表" << endl;

cout << "2-查看群操作列表" << endl;

cout << "3-登录其他账号" << endl;

cout << "4-返回平台" << endl;

cin >> n;

if (n == 1) {

friendstart:

system("cls");

cout << "你想对好友列表进行什么操作？"<<endl;

cout << "1-添加好友" << endl;

cout << "2-删除好友" << endl;

cout << "3-查看好友列表" << endl;

cout << "4-返回菜单" << endl;

cin >> n;

if (n == 1) {

addqqfriend(exam);

goto friendstart;

}

if (n == 2) {

deleteqqfriend(exam);

goto friendstart;

}

if (n == 3) {

findqqfriend(exam);

goto friendstart;

}

if (n == 4) {

goto start;

}

}

if (n == 2) {

groupstart:

system("cls");

if()

findqqgroup(exam);

}

if(n == 4) {

return;

}

}

void loading() {

while(1){

system("cls");

int n;

qqUser exam;

cout << "1-登录,2-创建新账号"<<endl;

cin >> n;

system("cls");

if (n == 1) {

cout << "输入登录编号" << endl;

cin >> n;

exam=idfind(n);

menu(exam);

}

else if (n == 2) {

cout << "准备创建新用户"<<endl;

cout << "1-创建" << endl;

cout << "2-返回" << endl;

cin >> n;

if (n == 1) {

cout << "前往注册界面..." << endl;

system("PAUSE");

userlist[qqidnumber]=createqq();

cout << "准备前往登录界面" << endl;

system("PAUSE");

}

}

else if (n != 1 && n != 2) {

cout << "输入错误"<<endl;

system("PAUSE");

}

}

}

int main() {

qqUser aa,bb;

aa.qqID = 0;

bb.qqID = 1;

userlist[0] = aa;

userlist[1] = bb;

qqidnumber = 1;

loading();

return 0;

}

3.0////

#include"用户信息zth.h";

#include"qq信息zth.h";

#include<iostream>

#include<time.h>

#include<typeinfo>

#pragma warning(disable : 4996);

using namespace std;

bool weixinfriendlist[100][100];

qqUser userlist[100];

int getmytime() {

int a, b, c, longtime;

time\_t t;

struct tm \* lt;

time(&t);//获取时间戳。

lt = localtime(&t);//转为时间结构

a = lt->tm\_hour, b = lt->tm\_min, c = lt->tm\_sec;

cout << "时间:" << a << ":" << b << ":" << c << endl;

longtime = a \* 10000 + b \* 100 + c;

return longtime;

}

qqUser createqq() {

system("cls");

qqUser exam;

exam.qqID = qqinformation::getqqidnumber();//第一个为0

qqinformation::changeqqidnumber(1);//id+1

cout << "注册信息" << endl;

cout << "create qqnickname:" << endl;

cin >> exam.qqnickname;

cout << "qqnickname:" << exam.qqnickname << " has been created" << endl;

cout << "create birthday:year/month/day" << endl;

cin >> exam.qqbirthday;

cout << "birthday:" << exam.qqbirthday << endl;

cout << "create local:" << endl;

cin >> exam.qqlocal;

cout << "local:" << exam.qqlocal << endl;

exam.changeqqflag();

exam.qqyear = getmytime();

cout << "qqyear:" << exam.qqyear << endl;

cout << "注册已完成，请获取你的登录编号:";

cout << exam.qqID << endl;

system("PAUSE");

return exam;

}

qqUser idfind(int i) {

int p;

for (p = 0;p < qqinformation::getqqidnumber();p++) {

if (userlist[p].qqID == i) {

cout << "找到用户，准备登录......" << endl;

system("PAUSE");

return userlist[p];

}

}

cout << "未找到该用户，请创建" << endl;

system("PAUSE");

}

void addqqfriend(qqUser &exam) {//添加好友

system("cls");

int i, number;

cout << "需要添加的好友编号：";

cin >> number;//i<100

i = number;

if (qqinformation::getqqfriendlist(exam.qqID,i) != 1 && i <qqinformation::getqqidnumber()) {

qqinformation::change1qqfriendlist(exam.qqID,i);//竖行代表当前账户

cout << "你与" << number << "号好友关系已建立" << endl;

system("PAUSE");

}

else if (qqinformation::getqqfriendlist(exam.qqID,i) == 1) {

cout << "已建立好友关系，请勿重复操作" << endl;

system("PAUSE");

}

if (i > qqinformation::getqqidnumber()) {

cout << "该用户不存在" << endl;

system("PAUSE");

}

}

void deleteqqfriend(qqUser &exam) {//删除好友

system("cls");

int i, number;

cout << "输入需要删除的好友编号";

cin >> number;

i = number;

if (qqinformation::getqqfriendlist(exam.qqID, i) == 1) {

qqinformation::change0qqfriendlist(exam.qqID, i);

cout << "你与" << number << "号好友关系已删除" << endl;

system("PAUSE");

}

else if (qqinformation::getqqfriendlist(exam.qqID, i) == 0) {

cout << "你与该好友尚未建立好友关系" << endl;

system("PAUSE");

}

}

void findqqfriend(qqUser &exam) {//找到所有好友

system("cls");

int i, number = 0;

for (i = 0;i < qqinformation::getqqidnumber();i++) {

if ((qqinformation::getqqfriendlist(exam.qqID, i) == 1) && (qqinformation::getqqfriendlist(i,exam.qqID ) == 0)) {

cout << "你与" << i << "号已建立单边好友关系" << endl;

number++;

}

else if ((qqinformation::getqqfriendlist(exam.qqID, i) == 1) && (qqinformation::getqqfriendlist(i, exam.qqID) == 1) && (i != exam.qqID)) {

cout << "你与" << i << "号已建立双边好友关系" << endl;

number++;

}

}

if (number == 0) {

cout << "你未与任何人建立好友关系" << endl;

}

system("PAUSE");

}

int createqqgroup(qqUser &exam) {//创群

int number;

cout << "你想创建一个新群？" << endl;

qqinformation::change1qqgrouplist(exam.qqID, qqinformation::getqqgroupnumber()) ;//竖行为用户，行为群号

number = qqinformation::getqqgroupnumber() + 1001;

qqinformation::changeqqgroupnumber(1);

cout << "群号为" << number << "的群已建立" << endl;

qqinformation::change3qqlevel(exam.qqID, qqinformation::getqqgroupnumber());

getchar();

return number;

}

void joinqqgroup(qqUser &exam) {//加群

int i, number;

cout << "你想加入几号群？（10XX）";

cin >> number;

i = number - 1 - 1000;

if (i >= qqinformation::getqqgroupnumber()) {

cout << "该群还未建立" << endl;

}

if (i < qqinformation::getqqgroupnumber()) {

qqinformation::change1qqjoinin(exam.qqID, qqinformation::getqqgroupnumber());

}

}

void findqqgroup(qqUser &exam) {

int i, number = 0;

for (i = 0;i < qqinformation::getqqgroupnumber();i++) {

if (qqinformation::getqqgrouplist(exam.qqID,i) == 1) {

cout << "你在" << i + 1001 << "号群内" << endl;

number++;

}

}

if (number == 0) {

cout << "你没有加入任何群" << endl;

}

}

void qqgroupmanage(qqUser &exam, int i) {//i为群号//群管理

int m, p, q, t;//m记录数组位置，p为踢出成员编号，q为循环变量,t为加入是否同意

m = i - 1001;

int n;

if (m >= qqinformation::getqqgroupnumber()) {

cout << "该群还未建立" << endl;

return;

}

if (qqinformation::getqqgrouplist(exam.qqID,m) == 0) {

cout << "你未加入此群" << endl;

return;

}

if (m < qqinformation::getqqgroupnumber()) {

if (qqinformation::getqqlevel(exam.qqID,m) == 1) {

cout << "按1退出群，按2返回主菜单" << endl;

cin >> n;

if (n == 1) {

qqinformation::change0qqgrouplist(exam.qqID,m);

cout << "你已退出" << i << "号群" << endl;

qqinformation::change0qqlevel(exam.qqID,m);

}

if (n == 2) {

return;

}

}

if (qqinformation::getqqlevel(exam.qqID,m) == 2) {

qqlevelstart:

int b = 0;//申请个数

system("cls");

cout << "按1处理入群申请，按2踢出群成员，按3退出群，按4返回主菜单" << endl;

cin >> n;

if (n == 1) {

for (q = 0;q < qqinformation::getqqidnumber();q++) {

if (qqinformation::getqqjoinin(q,m) == 1) {

cout << "编号为" << q << "的用户申请加入群" << endl;

cout << "同意按1，不同意按0" << endl;

cin >> t;

if (t == 0) {

qqinformation::change0qqjoinin(q,m);

cout << "编号为" << q << "的用户已被你拒绝入群";

b++;

}

if (t == 1) {

qqinformation::change0qqjoinin(q, m);

qqinformation::change1qqgrouplist(q,m);

cout << "允许编号为" << q << "的用户加入群";

qqinformation::change1qqlevel(q,m);//初始化等级为群员

b++;

}

}

}

if (b == 0) {

cout << "没有人申请进入" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (b != 0) {

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 2) {

cout << "请输入需要踢出的成员编号：";

cin >> p;

if (qqinformation::getqqgrouplist(p,m) == 1 && p != exam.qqID&&qqinformation::getqqlevel(p,m) == 1) {

qqinformation::change0qqgrouplist(p,m);

cout << "成员" << p << "已踢出";

system("PAUSE");

goto qqlevelstart;

}

else if (qqinformation::getqqgrouplist(p,m) == 1 && p != exam.qqID&&qqinformation::getqqlevel(p,m) != 1) {

cout << "你无法踢出管理员或群主" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (qqinformation::getqqgrouplist(p,m) == 0) {

cout << "该用户不在群内" << endl;

system("PAUSE");

goto qqlevelstart;

}

else if (p == exam.qqID) {

cout << "你不能踢出自己" << endl;

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 3) {

qqinformation::change0qqgrouplist(exam.qqID,m);

cout << "你已退出" << i << "号群" << endl;

qqinformation::change0qqlevel(exam.qqID,m);

system("PAUSE");

return;

}

if (n == 4) {

return;

}

}

if (qqinformation::getqqlevel(exam.qqID,m) == 3) {

qqlevel2start:

int b = 0;

system("cls");

cout << "按1处理入群申请，按2管理群员等级，按3踢出群成员或管理员，按4退出群，按5返回主菜单" << endl;

cin >> n;

if (n == 1) {

for (q = 0;q < qqinformation::getqqidnumber();q++) {

if (qqinformation::getqqjoinin(q,m) == 1) {

cout << "编号为" << q << "的用户申请加入群" << endl;

cout << "同意按1，不同意按0" << endl;

cin >> t;

if (t == 0) {

qqinformation::change0qqjoinin(q,m);

cout << "编号为" << q << "的用户已被你拒绝入群";

b++;

}

if (t == 1) {

qqinformation::change0qqjoinin(q,m);

qqinformation::change1qqgrouplist(q,m);

cout << "允许编号为" << q << "的用户加入群";

qqinformation::change1qqlevel(q,m);//初始化等级为群员

b++;

}

}

}

if (b == 0) {

cout << "没有人申请进入" << endl;

system("PAUSE");

goto qqlevel2start;

}

else if (b != 0) {

system("PAUSE");

goto qqlevel2start;

}

}

if (n == 2) {

qqlevel3start:

system("cls");

cout << "你想对群员进行何种操作？1-升为管理员，2-降为群员,3-升为群主，自己降级为管理员，4-返回" << endl;

cin >> n;

if (n == 1) {

cout << "你想晋升的群员编号是：" << endl;

cin >> n;

if (qqinformation::getqqgrouplist(n,m) == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (n == exam.qqID) {

cout << "你已是群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqinformation::getqqgrouplist(n,m) == 1 && qqinformation::getqqlevel(n,m) == 2) {

cout << "该用户已经是该群的管理员" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqinformation::getqqgrouplist(n,m) == 1 && qqinformation::getqqlevel(n,m) == 1) {

cout << "编号为" << n << "的用户升为了管理员" << endl;

qqinformation::change2qqlevel(n,m);

system("PAUSE");

goto qqlevel3start;

}

}

if (n == 2) {

cout << "你想降为群员的用户编号为：";

cin >> n;

if (qqinformation::getqqgrouplist(n,m) == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (n == exam.qqID) {

cout << "你已是群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqinformation::getqqgrouplist(n,m) == 1 && qqinformation::getqqlevel(n,m) == 1) {

cout << "该用户已经是该群的群员" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqinformation::getqqgrouplist(n,m) == 1 && qqinformation::getqqlevel(n,m) == 2) {

cout << "编号为" << n << "的用户降为了群员" << endl;

qqinformation::change1qqlevel(n,m);

system("PAUSE");

goto qqlevel3start;

}

}

if (n == 3) {

cout << "你想晋升为群主的用户是：（你将降为管理员）：";

cin >> n;

if (qqinformation::getqqgrouplist(n,m) == 0) {

cout << "该用户尚未加入该群";

system("PAUSE");

goto qqlevel3start;

}

else if (qqinformation::getqqgrouplist(n,m) == 1 && qqinformation::getqqlevel(n,m) == 3) {

cout << "你已经是该群的群主" << endl;

system("PAUSE");

goto qqlevel3start;

}

else if (qqinformation::getqqgrouplist(n,m) == 1) {

cout << "编号为" << n << "的用户升为了群主" << endl;

qqinformation::change3qqlevel(n,m);

qqinformation::change2qqlevel(exam.qqID,m);

system("PAUSE");

goto qqlevelstart;

}

}

if (n == 4) {

return;

}

}

if (n == 3) {

cout << "请输入需要踢出的成员编号：";

cin >> p;

if (qqinformation::getqqgrouplist(p,m) == 1 && p != exam.qqID) {

qqinformation::change0qqgrouplist(p,m);

cout << "成员" << p << "已踢出";

system("PAUSE");

goto qqlevel2start;

}

else if (qqinformation::getqqgrouplist(p,m) == 0) {

cout << "该用户不在群内" << endl;

system("PAUSE");

goto qqlevel2start;

}

else if (p == exam.qqID) {

cout << "你不能踢出自己" << endl;

system("PAUSE");

goto qqlevel2start;

}

}

if (n == 4) {

qqinformation::change0qqgrouplist(exam.qqID, m);

cout << "你已退出" << i << "号群" << endl;

qqinformation::change0qqlevel(exam.qqID,m);

for (q = 0;q < qqinformation::getqqidnumber();q++) {

if (qqinformation::getqqlevel(q,m) == 2) {

qqinformation::change3qqlevel(q,m) ;

cout << "编号为" << q << "的用户已从管理员升为群主";

break;

}

if (qqinformation::getqqlevel(q,m) == 1) {

qqinformation::change3qqlevel(q,m);

cout << "由于没有管理员，编号为" << q << "的用户已从群员升为群主";

break;

}

}

system("PAUSE");

return;

}

if (n == 5) {

return;

}

}

}

}

void menu(qqUser &exam) {

int n;

start:

system("cls");

cout << "1-查看好友操作列表" << endl;

cout << "2-查看群操作列表" << endl;

cout << "3-登录其他账号" << endl;

cout << "4-返回平台" << endl;

cin >> n;

if (n == 1) {

friendstart:

system("cls");

cout << "你想对好友列表进行什么操作？" << endl;

cout << "1-添加好友" << endl;

cout << "2-删除好友" << endl;

cout << "3-查看好友列表" << endl;

cout << "4-返回菜单" << endl;

cin >> n;

if (n == 1) {

addqqfriend(exam);

goto friendstart;

}

if (n == 2) {

deleteqqfriend(exam);

goto friendstart;

}

if (n == 3) {

findqqfriend(exam);

goto friendstart;

}

if (n == 4) {

goto start;

}

}

if (n == 2) {

groupstart:

system("cls");

}

if (n == 4) {

return;

}

}

void loading() {

while (1) {

system("cls");

int n;

qqUser exam;

cout << "1-登录,2-创建新账号" << endl;

cin >> n;

system("cls");

if (n == 1) {

cout << "输入登录编号" << endl;

cin >> n;

exam = idfind(n);

menu(exam);

}

else if (n == 2) {

cout << "准备创建新用户" << endl;

cout << "1-创建" << endl;

cout << "2-返回" << endl;

cin >> n;

if (n == 1) {

cout << "前往注册界面..." << endl;

system("PAUSE");

userlist[qqinformation::getqqidnumber()-1] = createqq();

cout << "准备前往登录界面" << endl;

system("PAUSE");

}

}

else if (n != 1 && n != 2) {

cout << "输入错误" << endl;

system("PAUSE");

}

}

}

int main() {

qqUser aa,bb;

qqinformation::changeqqidnumber(2);

aa.qqID = 0;

bb.qqID = 1;

userlist[0] = aa;

userlist[1] = bb;

loading();

return 0;

}