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/*-----
- Game: Ai la trieu phu (C++)
- Code by: Le Anh Duc (A36000)
- Website: https://thanglongit.vn
- Version: 2.0.4
+ Update mot so chuc nang tro giup
+ Phat nhac tung cau hoi
+ Fix loi am thanh
+ ...
-----*/

#include<iostream>
#include<fstream>
#include<cstdlib>
#include<cstring>
#include<string>
#define USER 200
#define SOUND 100
#define ANSWER 300
#define SUPPORT 200
#define QUESTION 500
using namespace std;
string HoTen[USER];
string NgheNghiep[USER];
string QueQuan[USER];
string CauHoi[QUESTION];
string DapAnA[ANSWER];
string DapAnB[ANSWER];
string DapAnC[ANSWER];
string DapAnD[ANSWER];
string DapAnDung[ANSWER];
string DapAnDung1[ANSWER];
string DapAnDung2[ANSWER];
string RepTrueSound[SOUND];
string ReadSound[SOUND];
string NamMuoiNamMuoi[SUPPORT];
string GoiDienThoai[SUPPORT];
string HoiKhanGia[SUPPORT];
string NguoiTroGiup;
string TraLoiCauHoi;
string Reply;
string Enter;
string Cmd;
int SoAmThanhTraLoiDung;
int SoAmThanhCauHoi;
int SoCapDapAnDung;
int SoNguoiChoi;
int SoTroGiup;
int SoCauHoi;
//Khai bao ham nguyen mau
void NguoiChoi(string HoTen[],string NgheNghiep[],string QueQuan[]);
void DocNguoiChoi(string HoTen[],string NgheNghiep[],string QueQuan[]);
void LuuNguoiChoi(string HoTen[],string NgheNghiep[],string QueQuan[]);
void DocCauHoi(string CauHoi[],string DapAnA[],string DapAnB[],string DapAnC[],string DapAnD[],string DapAnDung[]);
void TroGiup(string NamMuoiNamMuoi[],string GoiDienThoai[],string HoiKhanGia[]);
void LoaiDapAnSai(string DapAnDung1[],string DapAnDung2[]);
void SanSang(string HoTen[],string QueQuan[]);
void AmThanhCauTraLoi();
void AmThanhCauHoi();
void BatDau(string Reply);
void Command1(int i);
void Command2(int i);
//=====
int main(){
    DocNguoiChoi(HoTen,NgheNghiep,QueQuan);
    NguoiChoi(HoTen,NgheNghiep,QueQuan);
    LuuNguoiChoi(HoTen,NgheNghiep,QueQuan);
    SanSang(HoTen,QueQuan);

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BatDau(Reply);
return 0;
}

//=====
//Dinh nghia ham - Nguoi choi
void NguoiChoi(string HoTen[],string NgheNghiep[],string QueQuan[]){
    cout<<"\t\tChao mung quy vi da den voi chuong trinh Ai La Trieu Phu (Enter)";
    system("canberra-gtk-play -f start.wav");
    getline(cin,Enter);
    system("canberra-gtk-play -f chaomung.wav");
    cout<<endl;
    cout<<"Xin moi ban gioi thieu doi chut ve ban than minh: "<<endl;
    cout<<"- Ho va ten: ";
    getline(cin,HoTen[SoNguoiChoi]);
    cout<<"- Nghe nghiep: ";
    getline(cin,NgheNghiep[SoNguoiChoi]);
    cout<<"- Que Quan: ";
    getline(cin,QueQuan[SoNguoiChoi]);
    SoNguoiChoi++;
}

//-----
void DocNguoiChoi(string Hoten[],string NgheNghiep[],string QueQuan[]){
    //Doc du lieu tu file nguoichoi.txt
    SoNguoiChoi=0;
    fstream fin("nguoichoi.txt");
    fin>>SoNguoiChoi;
    char temp[100];
    fin.getline(temp,100);
    for(int i=0;i<SoNguoiChoi;i++){
        getline(fin,HoTen[i]);
        getline(fin,NgheNghiep[i]);
        getline(fin,QueQuan[i]);
    }
    fin.close();
}

//-----
void LuuNguoiChoi(string HoTen[],string NgheNghiep[],string QueQuan[]){
    /*Luu du lieu xuong file nguoichoi.txt*/
    ofstream fout("nguoichoi.txt");
    fout<<SoNguoiChoi<<endl;
    for(int i=0;i<SoNguoiChoi;i++){
        fout<<HoTen[i]<<endl<<NgheNghiep[i]<<endl<<QueQuan[i]<<endl;
    }
    fout.close();
}

//=====
//Dinh nghia ham - Cau hoi va dap an
void DocCauHoi(string CauHoi[],string DapAnA[],string DapAnB[],string DapAnC[],string DapAnD[],string DapAnDung[]){
    //Doc du lieu tu file cauhoi.txt
    SoCauHoi=15;
    fstream fin("cauhoi.txt");
    fin>>SoCauHoi;
    char temp[100];
    fin.getline(temp,100);
    for(int i=0;i<SoCauHoi;i++){
        //Doc tu file in vao mang
        getline(fin,CauHoi[i]);
        getline(fin,DapAnA[i]);
        getline(fin,DapAnB[i]);
        getline(fin,DapAnC[i]);
        getline(fin,DapAnD[i]);
        getline(fin,DapAnDung[i]);
        //In cau hoi ra man hinh
        TroGiup(NamMuoiNamMuoi,GoiDienThoai,HoiKhanGia);
        cout<<CauHoi[i]<<endl;
        cout<<endl;
        cout<<DapAnA[i]<<"\t\t\t"<<DapAnB[i]<<endl;
    }
}

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cout<<DapAnC[i]<<"\t\t\t" <<DapAnD[i]<<endl;
cout<<endl;
AmThanhCauHoi();
Command1(i);
cout<<"=> Cau tra loi cuoi cung cua ban la: ";
getline(cin, TraLoiCauHoi);
if(TraLoiCauHoi[0]==DapAnDung[i][0]||DapAnDung[i][0]==TraLoiCauHoi[0]-32){
    AmThanhCauTraLoi();
    Command2(i);
    //cout<<"=> Do la cau cau tra loi dung !"<<endl;
    system("clear");
}
//50/50 (1)
else if(TraLoiCauHoi=="1"){
    system("canberra-gtk-play -f 5050.wav");
    //cout<<"Chung toi xin moi may tinh loai bo di 2 phuong an sai"<<endl;
    system("clear");
    TroGiup(NamMuoiNamMuoi, GoiDienThoai, HoiKhanGia);
    cout<<CauHoi[i]<<endl;
    cout<<endl;
    LoaiDapAnSai(DapAnDung1, DapAnDung2);
    cout<<DapAnDung1[i]<<"\t\t\t" <<DapAnDung2[i]<<endl;
    cout<<endl;
    cout<<"=> Cau tra loi cuoi cung cua ban la: ";
    getline(cin, TraLoiCauHoi);
    if(TraLoiCauHoi[0]==DapAnDung[i][0]||DapAnDung[i][0]==TraLoiCauHoi[0]-32){
        AmThanhCauTraLoi();
        Command2(i);
        //cout<<"=> Do la cau cau tra loi dung !"<<endl;
        system("clear");
    }
    else{
        cout<<"=> Do la cau tra loi sai, rat tiec ban da phai dung cuoc choi o day !"<<endl;
        system("canberra-gtk-play -f repfalse.wav");
        system("canberra-gtk-play -f xinchao.wav");
        exit(0);
    }
}
//Goi dien thoai (2)
else if(TraLoiCauHoi=="2"){
    system("canberra-gtk-play -f goidienthoai1.wav");
    cout<<"- Va ban muon goi dien thoai cho ai ? - ";
    getline(cin, NguoiTroGiup);
    cout<<"- Chung toi xin ket noi dien thoai den ban "<<NguoiTroGiup<<" !"<<endl;
    system("canberra-gtk-play -f goidienthoai2.wav");
    system("canberra-gtk-play -f goidienthoai3.wav");
    system("canberra-gtk-play -f goidienthoai4.wav");
    cout<<"- \\"Sau 30s goi dien, ban "<<NguoiTroGiup<<" xin tro giup dap an la: "<<DapAnDung[i]<<"\\"<<endl;
    cout<<"=> Cau tra loi cuoi cung cua ban la: ";
    getline(cin, TraLoiCauHoi);
    if(TraLoiCauHoi[0]==DapAnDung[i][0]||DapAnDung[i][0]==TraLoiCauHoi[0]-32){
        AmThanhCauTraLoi();
        Command2(i);
        //cout<<"=> Do la cau cau tra loi dung !"<<endl;
        system("clear");
    }
    else{
        cout<<"=> Do la cau tra loi sai, rat tiec ban da phai dung cuoc choi o day !"<<endl;
        system("canberra-gtk-play -f repfalse.wav");
        system("canberra-gtk-play -f xinchao.wav");
        exit(0);
    }
}
//Hoi khan gia (3)
else if(TraLoiCauHoi=="3"){
    system("canberra-gtk-play -f hoikhangia1.wav");

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AmThanhCauHoi();
Command1(i);
system("canberra-gtk-play -f hoikhangia2.wav");
cout<<"\t"100% khan gia chon "<<DapAnDung[i]<<"\ "<<endl;
cout<<"=> Cau tra loi cuoi cung cua ban la: ";
getline(cin,TraLoiCauHoi);
if(TraLoiCauHoi[0]==DapAnDung[i][0]||DapAnDung[i][0]==TraLoiCauHoi[0]-32){
    AmThanhCauTraLoi();
    Command2(i);
    //cout<<"=> Do la cau cau tra loi dung !"<<endl;
    system("clear");
}
else{
    cout<<"=> Do la cau tra loi sai, rat tiec ban da phai dung cuoc choi o day !"<<endl;
    system("canberra-gtk-play -f repfalse.wav");
    system("canberra-gtk-play -f xinchao.wav");
    exit(0);
}
}
else{
    cout<<"=> Do la cau tra loi sai, rat tiec ban da phai dung cuoc choi o day !"<<endl;
    system("canberra-gtk-play -f repfalse.wav");
    system("canberra-gtk-play -f xinchao.wav");
    exit(0);
}
}
fin.close();
}
//=====
//Dinh nghia ham - san sang va bat dau choi
void SanSang(string HoTen[],string QueQuan[]){
    system("clear");
    cout<<"=> Nguoi choi cua chung ta, ban "<<HoTen[SoNguoiChoi-1]<<" den tu "<<QueQuan[SoNguoiChoi-1]<<" !";
    getline(cin,Enter);
    system("canberra-gtk-play -f luatchoi.wav");
    /*cout<<"=> Co tat ca 15 cau hoi dang doi ban !";
    getline(cin,Enter);
    cout<<"=> Co 3 moc cau hoi quan trong ban can vuot qua do la: ";
    getline(cin,Enter);
    cout<<"\t\t=> 5 <=";
    getline(cin,Enter);
    cout<<"\t\t=> 10 <=";
    getline(cin,Enter);
    cout<<"\t\t=> 15 <=";
    getline(cin,Enter);*/
}
//-----
void BatDau(string Reply){
    system("clear");
    char y,n;
    cout<<"=> Ban da san sang choi chua ? (y/n) - ";
    getline(cin,Reply);
    if(Reply=="y"){
        system("canberra-gtk-play -f sansang.wav");
        cout<<"=> Nguoi choi da san sang va chung ta bat dau di tim ai la trieu phu !";
        getline(cin,Enter);
        system("clear");
        DocCauHoi(CauHoi,DapAnA,DapAnB,DapAnC,DapAnD,DapAnDung);
    }
    else if(Reply=="n"){
        cout<<"=> HaizZz !!!"<<endl;
    }
    else{
        cout<<"=> Nhap sai roi ban oi !"<<endl;
    }
}
//=====

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//Am thanh phan cau hoi
void AmThanhCauHoi(){
    SoAmThanhCauHoi=15;
    fstream fin("readsound.txt");
    fin>>SoAmThanhCauHoi;
    char temp[100];
    fin.getline(temp,100);
    for(int i=0;i<SoAmThanhCauHoi;i++){
        getline(fin,ReadSound[i]);
    }
    fin.close();
}

void Command1(int i){
    string Cmd="canberra-gtk-play -f ";
    Cmd+=ReadSound[i];
    char Comd[100]={};
    for(int j=0;j<100;j++){
        Comd[j]='\0';
    }
    for(int j=0;j<Cmd.size();j++){
        Comd[j]=Cmd.at(j);
    }
    system(Comd);
}

//Am thanh tra loi dung
void AmThanhCauTraLoi(){
    SoAmThanhTraLoiDung=15;
    fstream fin("reptruesound.txt");
    fin>>SoAmThanhTraLoiDung;
    char temp[100];
    fin.getline(temp,100);
    for(int i=0;i<SoAmThanhTraLoiDung;i++){
        getline(fin,RepTrueSound[i]);
    }
    fin.close();
}

void Command2(int i){
    string Cmd="canberra-gtk-play -f ";
    Cmd+=RepTrueSound[i];
    char Comd[100]={};
    for(int j=0;j<100;j++){
        Comd[j]='\0';
    }
    for(int j=0;j<Cmd.size();j++){
        Comd[j]=Cmd.at(j);
    }
    system(Comd);
}

//=====
//Tro giup
void TroGiup(string NamMuoiNamMuoi[],string GoiDienThoai[],string HoiKhanGia[]){
    SoTroGiup=1;
    fstream fin("trogiup.txt");
    fin>>SoTroGiup;
    char temp[100];
    fin.getline(temp,100);
    for(int i=0;i<SoTroGiup;i++){
        getline(fin,NamMuoiNamMuoi[i]);
        getline(fin,GoiDienThoai[i]);
        getline(fin,HoiKhanGia[i]);
        //In ra man hinh
        cout<<NamMuoiNamMuoi[i]<<"\t\t"<<GoiDienThoai[i]<<"\t\t"<<HoiKhanGia[i]<<endl;
    }
    cout<<"-----"<<endl;
    fin.close();
}

//-----

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//5050
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void LoaiDapAnSai(string DapAnDung1[],string DapAnDung2[]){
```

```
    SoCapDapAnDung=15;
```

```
    fstream fin("5050.txt");
```

```
    fin>>SoCapDapAnDung;
```

```
    char temp[100];
```

```
    fin.getline(temp,100);
```

```
    for(int i=0;i<SoCapDapAnDung;i++){
```

```
        getline(fin,DapAnDung1[i]);
```

```
        getline(fin,DapAnDung2[i]);
```

```
    }
```

```
    fin.close();
```

```
}
```

```
//=====
```