循序檔

#include"StuCard.h"

#include<fstream>

int main()

{

double a[3] = { 80.0, 70.0, 90.0 };

double b[3] = { 85.0, 77.0, 95.0 };

double c[3] = { 83.0, 75.0, 70.0 };

double d[3] = { 73.0, 95.0, 67.0 };

double e[3] = { 88.0, 79.0, 71.0 };

StuCard s[5] = { StuCard( "Jerry", 1, a ), StuCard( "John", 1, b ), StuCard( "Mary", 0, c ), StuCard( "Tom", 1, d ), StuCard( "Claire", 0, e ) };

ofstream out;

out.open("StuCard.txt",ios::out);

for (int i = 0; i < 5; i++)

{

s[i].writeToFile(out);

}

out.close();

ifstream in;

in.open("StuCard.txt",ios::in);

for (int i = 0; i < 5; i++)

{

s[i].readFromFile(in);

}

in.close();

system("pause");

return 0;

}

#include"StuCard.h"

StuCard::StuCard(string name, bool sex, double score[3])

{

this->name = name;

this->sex = sex;

for (int i = 0; i < 3; i++)

{

scoreAry[i] = score[i];

}

}

void StuCard::setName(string name)

{

this->name = name;

}

void StuCard::setSex(bool sex)

{

this->sex = sex;

}

void StuCard::setScore(double score[3])

{

for (int i = 0; i < 3; i++)

{

scoreAry[i] = score[i];

}

}

string StuCard::getName()

{

return name;

}

bool StuCard::getSex()

{

return sex;

}

double StuCard::getScore(int c)

{

return scoreAry[c];

}

double StuCard::average()

{

return (getScore(0) + getScore(1) + getScore(2)) / 3.0;

}

void StuCard::printCard()

{

cout << fixed << setprecision(1) << getName() << " " << getSex() << " " << getScore(0) << " " << getScore(1) << " " << getScore(2) << " " << average() << endl;

}

void StuCard::writeToFile(ostream& out)

{

out << fixed << setprecision(1) << getName() << " " << getSex() << " " << getScore(0) << " " << getScore(1) << " " << getScore(2) << endl;

}

void StuCard::readFromFile(istream& in)

{

string n;

bool x;

double s[3];

in >> n >> x >> s[0] >> s[1] >> s[2];

cout << fixed << setprecision(1) << n << " " << x << " " << s[0] << " " << s[1] << " " << s[2] << endl;

}

#ifndef S\_H

#define S\_H

#include<iostream>

#include<string>

#include<iomanip>

using namespace std;

class StuCard

{

public:

StuCard(string, bool, double[3]);

void setName(string);

void setSex(bool);

void setScore(double score[3]);

string getName();

bool getSex();

double getScore(int);

double average();

void printCard();

void writeToFile(ostream&);

void readFromFile(istream&);

private:

string name;

bool sex;

double scoreAry[3];

};

#endif