#include <bits/stdc++.h>

using namespace std;

/\*

// CÁC TÍNH NĂNG TUI CHƯA BIẾT PHÂN SAO

Log in, log out

View the scoreboard of a course.

Update a student result.

View the scoreboard of a class, including final marks of all courses in the semester, GPA in this semester, and the overall GPA.

When the scoreboard has been published (by the academic staff member), a student can:

View his/her scoreboard.

1. An academic staff member will export the list of students in a course, send the CSV file to the teacher, the teacher will enter student results in this file, send it back to the staff, and then the staff will import the scoreboard to the system)

\*/

struct *Date* {

int day;

int month;

int year;

};

struct *Course* {

Student arr[]; // -> scoreboard ???

*Date* start\_date;

*Date* end\_date;

*string* id; // mã học phần

*string* name; // tên học phần

*string* lecturer; // tên GV

int numCredits;

int maxStudents{50};

int day[7]; // "MON", "TUE", "WED", "THU", "FRI", "SAT";

// S1 (07:30), S2 (09:30), S3(13:30) and S4 (15:30)

int session; // 1 -> 4

Void viewCourses();

void updateCourse();

void viewStudents();

void exportStudents(); // to a CSV file

void viewScoreboard(); //

};

#include <Semester.h>

// Semester.cpp

struct *Semester* {

*Date* start\_date;

*Date* end\_date;

// Linked list of courses …

void coursesList();

void deleteCourse();

};

struct *Schoolyear* {

// Linked list of semesters …

// Linked list of classes … ?

};

struct *Student* {

*string* username;

*string* password;

*string* name;

*string* id;

*string* email;

// of some course… (use pointer???)

{

double midtermMark, finalMark, otherMark

double totalMark;

}

// các phương thức của 1 cán bộ

// When a course registration session is active, a student can:

void enrollCourse() {

// If 2 sessions of the new course are conflicted with existing enrolled course

// sessions, he/she can not enroll in it. He/she can enroll in at most 5 courses

// in a semester.

}

void viewenrolledCourse();

void removeCourse(); // Remove a course from the enrolled list.

// When a course registration session is close, a student still can:

};

struct *Lecturer* {

// ???

*string* username;

*string* password;

*string* name;

*string* id;

*string* email;

void viewCourses();

// import scoreboard ???

// ... some more

};

struct *Staff* {

*string* username;

*string* password;

*string* name;

*string* id;

*string* email;

// các phương thức của 1 sinh viên

// At any time, an academic staff member can:

void viewClasses();

void viewCourses();

Void updateResult(); // friend ???

};

struct *Class* {

*Date* start\_date;

*Date* end\_date;

void addStudent(*Student*);

void importStudents(*ifstream*&); // from a CSV file

};

void viewStudents(...);

0. struct Date - Khang

1. struct Course - Duy
2. struct Semester - Minh
3. struct Schoolyear - Khang
4. struct Student - Viet
5. struct Lecturer - Minh
6. struct Staff - Duy
7. struct Class - Viet