```
Classroom.h
private:
     std::string classroomName;
     std::string ClassroomType;
     vector<Day> days;
public:
    Classroom();
    Classroom(std::string x,std::string y);
     ~Classroom();
    void setClassroomName( std::string x);
    void setClassroomType( std::string x);
    std::string getClassroomName();
     std::string getClassroomType();
    void display();
bool isAvailable(std::string day,std::string time);
    void setClass(std::string day,std::string time,std::string year);
    bool is Year Available (std::string day, std::string time, std::string year);
```

```
Day.h
private:
    bool morning;
    bool afternoon;
    std::string name;
    vector <string> morningCourses;
     vector <string> afternoonCourses;
 public:
    Day(std::string name,bool morning=true,bool afternoon=true);
     ~Day();
    void setAfternoon (bool x);
     void setMorning (bool x);
    bool getAfternoon ();
    bool getMorning ();
    void setName(std::string x);
    std::string getName();
     void addCourse(std::string time,std::string year);
    bool contains Year (std::string time, std::string year);
```

```
Course.h
private:
    std::string courseCode;
    std::string courseName;
    std::string year;
     std::string credit;
    std::string status;
    std::string unit;
     std::string instructor;
     std::string day;
     std::string time;
    std::string classroomName;
    std::vector< std::vector<std::string> > busyTimes;
    Course(std::string courseCode,
    std::string courseName,
     std::string year,
     std::string credit,
     std::string status,
     std::string unit,
    std::string instructor);
    void display();
    std::string getCourseCode();
    std::string getCourseName();
     std::string getYear();
     std::string getCredit();
     std::string getStatus();
    std::string getUnit();
    std::string getInstructor();
     std::string getDay();
     std::string getTime();
    std::string getClassroomName();
    void setCourseCode(std::string x);
    void setCourseName(std::string x);
    void setYear(std::string x);
    void setCredit(std::string x);
    void setStatus(std::string x);
    void setUnit(std::string x);
    void setInstructor(std::string x);
    void setDay(std::string x);
    void setTime(std::string x);
    void setClassroomName(std::string x);
    void addBusyTime(std::vector<std::string> busy);
    bool hasBusyTime();
    bool containsBusy(std::string day,std::string time);
     friend bool operator== ( Course c1, Course c2);
```