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APCS2 pd2
Hw #60 -- Are we there yet?
2018 06 08

Comparable <<Interface>>
+ comparesTo()

Course
- String teacher - int period - String subject - ArrayList<Student> students; - int maxStudents - int numStudents - PriorityQueue<Student> waitlist - ArrayList<Student> roster ------------------------------------ + PriorityQueue<Student> getWaitlist() + ArrayList<Student> getRoster() + String getTeacher() + String setTeacher() + int getPeriod() + int setPeriod() + String getSubject() + String setSubject() + int getMaxStudents() + int setMaxStudents() + int getNumStudents() + int setNumStudents() + Student addStudent() + Student removeStudent() + PriorityQueue <Student> getWaitlist() + PriorityQueue <Student> setWaitlist() + String toString() + void approveStudents() + void joinStudent(Student

s)

Student

- int id
- ArrayList<Course> schedule
- int grade
- double gpa
- boolean needFIrst
- boolean needSecond
- boolean needThird

+boolean getFirst()
+ boolean getSecond()
+ boolean getThird()
+ boolean chooseClasses()
+ ArrayList<Course> getSchedule()
+ course[] setSchedule()
+ int getGpa()
+ int getId()
+ void printSchedule()
+ void printScheduleReverse()
+ int size()
+ int compareTo(Object a)
+ void chooseClasses(int period)
+ void joinClass(Course c)
+ String toString()

User

- String Username
- String Password

+ String getUser()
+ String setUser()
+ String getPass()
+ String setPass()

LCourses

```
- ArrayList <Course>
courses
-------------------------------------
+ void printCourses()
+ String addCourse(Course
c)
+ String removeCourse(int
i)
+ ArrayList<Course>
getCourses()
+ ArrayList<Course>
getCourse (int n)
+ ArrayList<Course>
setCourses(ArrayList<Cour
se> c)
```

```
LStudents

- ArrayList <Student>
students
-------------------------------------
+ void printStudents()
+ ArrayList<Student>
getStudents()
+ int checkStudent(String u,
String p)
+ Student getStudent(int id)
+ Student
removeStudent(int id)
```

```
Woo

+void main(String[] args)
+void instantiateData()
```

```
Admin

+ Course addCourse()
+ Course removeCourse()
```

```
+ Student addStudent()
+ Student
removeStudent(int id)
+ Student getStudent(int id)
+ void generateSchedules()
```

Comparable

User

Student

implements

extends

extends

Admin

LCourses

Course

LStudents