

Team Flying Bob <Addison Huang, Jerry Ye, Shayan Chowdhury>  
APCS2 pd2  
Hw #60 -- Are we there yet?  
2018 06 08

Comparable <<Interface>>
+ compareTo()

Course
<ul style="list-style-type: none"><li>- String teacher</li><li>- int period</li><li>- String subject</li><li>- ArrayList&lt;Student&gt; students;</li><li>- int maxStudents</li><li>- int numStudents</li><li>- PriorityQueue&lt;Student&gt; waitlist</li><li>- ArrayList&lt;Student&gt; roster</li></ul> <hr/> <ul style="list-style-type: none"><li>+ PriorityQueue&lt;Student&gt; getWaitlist()</li><li>+ ArrayList&lt;Student&gt; getRoster()</li><li>+ String getTeacher()</li><li>+ String setTeacher()</li><li>+ int getPeriod()</li><li>+ int setPeriod()</li><li>+ String getSubject()</li><li>+ String setSubject()</li><li>+ int getMaxStudents()</li><li>+ int setMaxStudents()</li><li>+ int getNumStudents()</li><li>+ int setNumStudents()</li><li>+ Student addStudent()</li><li>+ Student removeStudent()</li><li>+ PriorityQueue &lt;Student&gt; getWaitlist()</li><li>+ PriorityQueue &lt;Student&gt; setWaitlist()</li><li>+ String toString()</li><li>+ void approveStudents()</li><li>+ void joinStudent(Student</li></ul>

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## Student

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

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+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

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

## LCourses

<pre> - ArrayList &lt;Course&gt; courses ----- + void printCourses() + String addCourse(Course c) + String removeCourse(int i) + ArrayList&lt;Course&gt; getCourses() + ArrayList&lt;Course&gt; getCourse (int n) + ArrayList&lt;Course&gt; setCourses(ArrayList&lt;Cour se&gt; c) </pre>
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LStudents
<pre> - ArrayList &lt;Student&gt; students ----- + void printStudents() + ArrayList&lt;Student&gt; getStudents() + int checkStudent(String u, String p) + Student getStudent(int id) + Student removeStudent(int id) </pre>

Woo
<pre> - User user - boolean studentAccount ----- +void loginPrompt() + void mainMenu() + void mainMenu2() + boolean hasAccount() + void login() + void makeAcct() + void logout() </pre>

