**Assignment 10**

**Problem**

Implement a student list as a binary search tree (BST) with natural ordering defined as last name, first name.

**Specification**

* 1. Each Student record should have the following fields:
     + studentNumber:Integer
     + lastname:String
     + firstName:String
     + major:String
     + gpa:Double
  2. Run the program from an appropriate menu allowing for the following operations:
     + Adding a Student record
     + Deleting a Student record
     + Listing students by:
       - All students
       - A given major
       - GPA above a certain value
       - GPA below a certain value
  3. Automatically load the Student records from secondary storage each time the program runs.
  4. Automatically save the Student records before the program ends.
  5. Use a custom Visitor object to write the Student records.
  6. Create API-like documentation using javadoc for all the files in the project including the authors.
     + [Dietel Appendix M](http://www.cs.slcc.edu/~bairdro/CS1410/PDF/jhtp_appm_using_javadoc.pdf)
     + [Tutorial](http://www.oracle.com/technetwork/java/javase/documentation/index-137868.html)

Admin

* 1. Grading
     + 0 points if your program does not compile.
     + +5 for comments, indentation and placement of {} per [Style Guide](http://www.cs.slcc.edu/style-guide.shtml).
     + +5 for each specification met.
  2. Submission: An executable JAR file that also contains your .java source code files and your .html documentation (javadoc) files.