CS170 Final Exam Study Guide

Details:
Monday, Dec. 15th, 6:30-9pm
White Hall, 208 (Note: this is NOT the usual classroom)

Closed book, closed notes, no calculator.

Bring to the exam:
- Number 2 pencils – There will be a scantron (“bubble sheet”) portion of the exam. We will not have extra pencils for you.
- Your Emory ID – We will be checking ID of all students taking the test.

Format:
The final will have fewer code writing questions than previous exams. It will be composed primarily of “easy to grade” questions (we do have to grade 180+ of these exams in less than 24 hours after all) such as multiple choice (“chose the best answer...”), fill in the blank, multiple answer (“choose all of the following which...”), and code tracing (“give the output of this program/function/code...”).

The exam will have 150 points. You will have the full 150 minutes (2.5 hours) to work on the exam. Each point equates to approximately 1 minute of effort. Thus, if a problem is worth 2 points, you should be able to answer it in approximately 2 minutes. Use this feature of the exam to pace yourself and gauge how much time you should spend on any one problem. If a problem is worth 5 points, don't spend 25 minutes on it!

The exam will contain (approximately!) 25% material from Exam 1, 25% material from Exam 2, and 50% new material. However, given the nature of the course, the material naturally builds upon itself.

Topics:
- The final exam WILL NOT cover the following topics:
  - the hardware of the computer (usually covered the first week or two of class)
  - Linux commands unrelated to Java
  - Advanced searching and sorting algorithms (Bubblesort, Quicksort, Mergesort, etc). However, you ARE responsible for understanding the Selection and Insertion sort algorithms.
- All Java programming topics will be covered (see above for material distribution and your class syllabus for textbook chapters/readings).

Extra practice:
- Many Midterms (Exams 1 and 2) from this and past semesters.
- www.codingbat.com/java Excellent site for practicing specific concepts (if-stmts, loops, logic problems, arrays, etc). Can write solutions to problems in browser and run against test cases. Also has help files and videos (scroll to bottom of page).
- Textbook, end of chapter problems. Check the class calendar for specific chapters.
- A sheet of recursion problems for practice.
- Lots of short quizzes from Dr. Summet's section (these should be done in approximately 15 minutes each).