

CSCI 1320 (Principles of Programming I), Fall 2014

Review for Final Exam

1 Format of the exam

The exam will be at the scheduled time for the course final, December 12 at 8:30am. The exam will be about twice the length of the first exam (intended to take 75 minutes), but you can use the full three hours if you like. Like the quizzes, it is open book/notes, which means you can consult paper or electronic copies of the textbook and your notes, material from the course Web site, your notes and graded work, and sample solutions *from this year only*. You may not use a calculator or computer *except* to view the above material. Questions will mostly be similar in format to the ones in quizzes — possibly some short-answer or multiple choice, some “what does this program do/print”, some “write a program to do this task” — but probably somewhat longer and/or more difficult. Overall they will probably be similar in format, length, and difficulty to the questions on the midterm. The exam will be cumulative in the sense that it could hardly not be given the nature of the course, but emphasis will be on material covered since the midterm.

2 Lecture topics to review

You are responsible for all material presented during lecture, with the exception of the material on GUIs and graphics, but the following is a list of topics I consider most important from the second half of the course. (See the midterm review sheet for a list of topics from the first half.)

- Collection types (lists and arrays).
- Collection methods.
- Loops.
- Files.
- Case classes.
- Sorting and searching.

3 Reading to review

You should have read all of chapters 1 through 10 and skimmed chapter 13. Probably the best way to approach reviewing the reading is to start with the “End of Chapter Material” section at the end of each of the covered chapters, specifically the “Summary of Concepts” and (where present) “Problem-Solving Approach” subsections. Time permitting you can also skim everything, paying particular attention to topics we covered in class.

4 Other tips

You should also be sure to review all homeworks, quizzes, and the midterm (and sample solutions).