CSCI 335
Software Design and Analysis III
Final Review Part 1

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12-05-22

Final review

- Exam Time and Date: **12/19/22 1:45-3:45PM**
- Arrival:
  - Wait outside the exam hall at 1:15pm (192 students enrolled) if possible. Early entry Id check will be done once seated.
- Closed book exam. No books or electronic devices of any kind allowed.
- 1 double-sided (8x11) cheat sheet allowed. Staff will check ids and cheat sheet.
- Look at list of exam rules already posted on blackboard. This is Page 1 of your exam. You have to sign the AIB agreement.
- You should plan to stay in the exam hall until you hand in your answer sheet.

Once exam begins

- Look over the exam end to end first and plan your time before you begin answering the questions. . Short answer, true/false, algorithm interpretation/problem solving, complexity analysis, proofs, code interpretation questions.

Note

- This is a 300-level course. Prepare as you would should for an advanced level course
  - Dig deep: Invest the appropriate amount of time digging into the details.
  - For each topic, know the why, what, complexity analysis, strengths, weaknesses.
  - Enjoy the process.
- Special emphasis to examples/topics/slides I asked you to pay special attention to during lectures.
- The following slides are just a high-level guide to help you organize information you should know. You are still expected to learn the details.

Final Material

- Material:
  - Use mideterm as a model for types of questions for 2 hour exam.
  - All material covered in class, assignments Chapters 6, 7, 8, 9, 10
  - Lecture notes from Lecture 14 until material covered 12/12/22 and associated text book readings.
  - **You have to read the textbook.**
  - Code used in lectures is from the textbook – look it up and study it!
  - Slides I emphasized during lecture.
  - Assignments since midterm.
  - All quiz questions from 1st day of class (to help study next week's quiz will cover all quiz questions and material covered since last quiz)
  - Blackboard FAQS.

Some pointers

- Proofs:
  - Lower bound proofs, telescoping proofs, worse case analysis
  - Prove as shown in class or
  - There could be what or why questions asked about some part of the proof shown in class.
- Work out algorithms:
  - Yes merging two heaps etc. you can show steps on the side but final answer in required spot.