Exam 2 Review



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TOPICS: What you need to know

- 1. Lecture slide sets 07, 09, 10, 11
- 2. All text reading assignments from these slide sets All thinking assignments in these slide sets
- 3. Making and informed hypothesis about algorithm correctness and proving it using four proof techniques
- 4. Five notations of complexity order
- 5. Approximate analyses of algorithm efficiency estimating Big-Oh complexity
 - 1. Nonrecursive algorithms
 - 2. Recursive algorithms
- 6. Detailed analyses of algorithm efficiency:
 - 1. Nonrecursive algorithms
 - 1. Calculating T(n)
 - 2. Determining complexity order
 - 2. Recursive algorithms
 - 1. Developing recurrence relations
 - 2. Interpreting recurrence relations
 - 3. Solving recurrence relations using various methods
 - 4. Calculating T(n)
 - 5. Determining complexity order

Exam Structure

- 75 minutes: Time limit strictly enforced exam will end sharp at 10:45!
- 30 multiple choice questions; 1 pt each for the total of 30 points

• No need to memorize anything. Any mathematical results or algorithms you need will be provided with the exam.

• The Master Theorem will be provided in the exam.

• Calculator allowed (also built into the lockdown browser), smartphone cannot be used as a calculator.

Before the Exam

- Download and install Respondus Lockdown Browser on your labtop
- Make sure you can access the course Canvas via the Lockdown Browser and able to take Canvas quiz by taking the Lockdown Browser Practice Quiz
 - If you experience a problem, reach out to the Respondus Help Center as soon as possible!
 - If you failed to prepare the Lockdown Browser before the exam, you will NOT be compensated for any time spent installing/troubleshooting it during the exam.

During the Exam

- Bring an ID (AU ID, driver's license, passport, etc.)
 - You will NOT be allowed to take the exam if proctor cannot verify your identity
- Resist the temptation to peek at your neighbor's answers
 - If we see you engage in any kind of cheating, YOU WILL FAIL THE COURSE and the case will be reported
- A basic calculator is built into the exam. You may be allowed to use a physical calculator with an approval from the proctor.
- NO ELECTRONIC DEVICES ALLOWED except the one with which you are taking the exam
- Any other electronic device in your possession must be turned off and kept off from the desk
- Closed text and notes
- Read and follow instructions on the exam carefully
- Manage your time carefully
- Do not get stuck on any single problem; else you will run out of time
- Ask proctor for sheets if you need sheets for scratch work

After the Exam

- Turn in the exam AND the scratch papers
- BEFORE LEAVING, record your name and the time of completion on the sign-off paper
 - If you fail to sign your name or we see you accessing the exam past the recorded time of completion, then you will receive a grade of ZERO



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