Exam 2 Review

TOPICS: What you need to know

- 1. Lecture slide sets 07, 09, 10, 11
- 2. All text reading assignments from these slide sets
- 3. All thinking assignments in these slide sets
- 4. Making and informed hypothesis about algorithm correctness and proving it using four proof techniques
- 5. Five notations of complexity order
- 6. Approximate analyses of algorithm efficiency estimating Big-Oh complexity
 - 1. Nonrecursive algorithms
 - 2. Recursive algorithms
 - 7. 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

- Take-home exam handled electronically via Canvas
- 5 Problems 30 multiple choice questions 60 points
- Exam is open text and notes
- All electronic devices are allowed
- It is prepared like a 50 minutes in-class exam
- The class on Tuesday October 20 will be reserved for taking the exam at home. No lecture on October 20.
- IT IS HIGLY RECOMMENDED THAT YOU COMPLETE THE EXAM WITHIN 50 MINUTES.

Added Flexibility - time and a half

- Time and a half on Exam II for everyone.
- Available at 9:30 AM Tuesday October 20
- Due before 10:45 AM Tuesday October 20
- For students needing **accommodation**, this will allow sufficient time for taking the Exam and its take-home nature automatically addresses your needs.
- Submission deadline will be strictly enforced.
- Late submission will not be accepted.

Academic Honesty

IF I SEE YOU ENGAGE IN ANY KIND OF CHEATING OR SEE EVIDENCE IN YOUR ANSWERS, YOU WILL FAIL THE COURSE AND THE CASE WILL BE REPORTED