LEC 18: Putting It All Together (Review)

Talk to your neighbors:

What’s the first thing you’ll do after finals is over? (Sleep is obvious...)

Music: 122 24wi Lecture Tunes 🎶

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Lecture Outline

• Announcements

• Exam Logistics

• Review

• How to Study
  - Mind Maps

• Example Problems
Announcements

• Last few sessions of classes! ☠
  - Quick overview of class today!
  - Victory lap + AMA on Wednesday

• Creative Project 3 (C3) currently out
  - Due *Friday*, March 8th by 11:59 PM

• Resubmission Cycle 7 (R7) opens March 7th
  - Due March 13th by 11:59 PM
  - Open to *all* previous assignments
Announcements

• Final Exam Review: Tuesday, March 12th 4:30-7:20pm
  - Led by TAs
  - First half: time to work on practice exam with TAs in room
  - Second half: TAs going over exam, giving tips
  - Likely recorded, we’ll update if this isn’t the case!

• Final Exam: Wednesday, March 13th 12:30 – 2:20 PM
  - Preliminary details are [up on the course website](#)
  - Coming Soon:
    - Seating Chart
  - Already up:
    - Final Exam Study Guide/Resource Bank Document
    - Past & Practice Exams
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Exam Format

• 6 questions in total, each will receive one ESN grade
  - Some questions might have sub-parts
  - Reminder: Quiz and Exam grades are all mixed into the same bucket

• General format
  - 3 Questions: Mix of Conceptual, Mechanical/Tracing, Debugging Problems
  - 3 Questions: Programming Problems

• See sections for the last 2 weeks for practice handwriting problems
Exam Logistics

Most important bits

• Wednesday March 13th from 12:30 – 2:20 PM in KNE 120/130
• Seat assignments will be posted soon!
• Don’t cheat
  - Only have the exam open during the time (don’t start early; don’t work after)
  - No electronic devices
• You can bring one 8.5x11 inch paper with notes (front and back)
  - Will also provide a reference sheet (see course website)

Questions? Raise hand or as on sli.do (cse122)
Review So Far

**CS Concepts**
- Problem Solving
- Functional Decomposition
- Debugging
- Testing
- Third Party Libraries*

**Java Language**
- File I/O
- Iterators and For-each Loops
- Exceptions
- Reference Semantics
- JUnit*

**Data Structures**
- ADTs
- Lists
- Stacks
- Queues
- Sets
- Maps

**Java Collections**
- Arrays / 2D Arrays
- ArrayList
- LinkedList
- Stack
- TreeSet / TreeMap
- HashSet / HashMap
- Interfaces for Collections

**Object Oriented**
- Instance variables
- Instance methods
- Interfaces
- Abstraction
- Encapsulation
- Client/Implementer
Review Resources

• Final Exam Resource Bank
• Pre-Class Materials + Lectures
• Section Handouts
• Quizzes so Far
• Your Notes!
  - Helpful for contextualizing what you learned
• Practice final exams
• Practice it
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Study Strategies

• Study Early and Often
• Stay Healthy
• Study Like you Test
• Connect Problems: How is one problem similar/different to another?
• Mixed Practice vs. Massed Practice
• Embrace Difficulty
• Reference Sheet: Iterative Refining
Mind Maps

• One of the most important parts of learning is *relating* concepts to each other
  - Almost all learning is contextual: based on relating one thing to another
  - **Transfer** is challenging!

• **Mind Maps** empower you to write out how topics relate to each other. Concretizing relations.

• Can be incredibly helpful when reviewing and can be a great resource for looking back at this class
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Course Evaluations

Lecture A

Lecture B