LEC 18

CSE 122

Putting It All Together (Review)

Questions during Class?

Raise hand or send here

sli.do #cse122

BEFORE WE START

Slido chat & talk with neighbors:

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

Music: 122 26Wi Lecture Tunes

Instructor: Adrian Salguero

TAs:

Ava	Dalton	Neal	Shreyank
Blake R	Dani	Neha	Sthiti
Blake P	David	Nicolae	Sushma
Cady	Diya	Nicole	Suyash
Caleb	Hanna	Rio	TJ
Cole	Ivy	Rohan	Wesley
Colin	Mahima	Saachi	Yang
Connor	Medha	Shreya	

Lecture Outline

- Announcements
- Exam Logistics
- Review
- How to Study
  - Mind Maps

Announcements

- Last few sessions of classes!
  - Quick overview of class today!
  - Victory lap + AMA on Friday
- Creative Project 3 (C3) currently out
  - Due **Friday**, March 13th by 11:59 PM

- Resubmission Cycle 7 (R7) opens tomorrow, Thursday March 12th
  - Due Tuesday, March 17th by 11:59 PM
  - Open to **all** previous assignments
- R8 info coming soon!
- Provide feedback!
  - Course evaluations: Section A & Section B
  - TA evaluations
- TA-led final exam review session **Monday, March 16th 4:30pm – 7:00pm**

Announcements

- Final Exam Review: **Monday, March 16th 4:30pm-7pm**
  - PAA A118
  - 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: **Tuesday, March 17th 12:30 – 2:20 PM**
  - Preliminary details are up on the course website!
  - Seating chart will be posted soon!
  - Practice Exams already available! (with solutions)

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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
- See your quizzes too!
- Review your assignments!

Exam Logistics

Most important bits:

- Tuesday, March 17th from 12:30 – 2:20 PM in KNE 130/220
- 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 (or A4) 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

- Pre-Class Materials + Lectures
- Section Handouts
- Quizzes so Far
- Your Notes!
  - Helpful for contextualizing what you learned
- Practice final exams

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  - Mind Maps

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