Putting It All Together (Review)

BEFORE WE START

Talk to your neighbors:

What are your best study strategies for exams?

Music: Miya’s 23wi CSE 122 Playlist

Instructor

Miya Natsuhara

TAs

Ayush
Connor
Poornitha
Andrew A
Andrew C
Jasmine
Darel
Gabe
Karen
Colton
Atharva
Julia
Megan
Joey
Eesha
Lillian
Thomas
Leon
Melissa
Audrey

Ernie
Di
Logan
Shivani
Michelle
Steven
Kevin
Ken
Vivek
Autumn

Questions during Class?
Raise hand or send here

sli.do #cse122
Lecture Outline

• Announcements

• Exam Logistics

• Review

• How to Study
  - Mind Maps

• Practice: Stacks & Queues
Announcements

• Last week of classes! ☠
  - Review today
  - Victory lap + AMA on Friday!

• C3 deadline pushed to **Friday, March 10**
  - Thank your TAs!

• Course Evals
  - Deadline is Sunday, March 12!
  - Currently at a 10.7% response rate...
Lecture Outline

• Announcements
• Exam Logistics
• Review
• How to Study
  - Mind Maps
• Practice: Stacks & Queues
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 3/15 from 12:30 – 2:20 pm
• Seat assignments
• 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
- Debugging
- Client/Implementer
- Object Oriented Programming
- Encapsulation
- Testing
- Third Party Libraries

**Data Structures**
- Lists
- Stacks
- Queues
- 2D Arrays
- Sets
- Maps

**Java Language**
- Intro to Java (e.g., File Processing)
- Iterators and For-each Loops
- Exceptions
- Interfaces
- References
- JUnit*

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

• Pre-Class Materials + Lectures
• Section Handouts
• Quizzes so Far
• Your Notes!
  - Helpful for contextualizing what you learned
Lecture Outline

• Announcements

• Exam Logistics

• Review

• How to Study
  - Mind Maps

• Practice: Stacks & Queues
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
Lecture Outline

• Exam Logistics

• Review

• How to Study
  - Mind Maps

• Practice: Stacks & Queues