Putting It All Together (Review)

Talk to your neighbors:
What are you best study strategies for exams?

Music: Hunter/Miya’s Playlist

Instructor: Hunter Schafer / Miya Natsuhara

TAs:
- Ajay
- Andrew
- Anson
- Anthony
- Audrey
- Chloe
- Colton
- Connor
- Elizabeth
- Evelyn

- Gaurav
- Hilal
- Hitesh
- Jake
- Jin
- Joe
- Joe
- Karen
- Kyler
- Leon

- Melissa
- Noa
- Parker
- Poojitha
- Samuel
- Sara
- Simon
- Sravani
- Tan
- Vivek
Lecture Outline

• 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

• Tuesday 12/13 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)
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Review So Far

CS Concepts
- Problem Solving
- Debugging
- Client/Implemenger
- Object Oriented Programming
- Encapsulation
- Testing
- Third Party Libraries

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

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

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
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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
Practice: Pair

Start a Mind Map of Course Concepts

Use whatever tool you want!

- Paper
- Miro / Other Whiteboarding Software
- Google Slides / Powerpoint
- Any tool you are comfortable with!
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• **Practice: Stacks & Queues**
Practice : Think

Stacks & Queues: reverseByN

Start writing a solution to reverseByN
Practice: Pair

Stacks & Queues: reverseByN

Start writing a solution to reverseByN