

LEC 19

CSE 122

# Putting It All Together (Review)

Questions during Class?

Raise hand or send here

sli.do #cse122



## BEFORE WE START

*Talk to your neighbors:*


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

*Music:*

---

Instructor	Elba Garza			
TAs	Abigail Autumn Claire Jacob Kevin Mia Rucha Shreya	Ambika Ayush Colin Jasmine Kyle Poojitha Saivi Smriti	Arthur Chaafen Elizabeth Jaylyn Marcus Rishi Shananda Steven	Atharva Chloë Helena Kavya Megana Rohini Shivani Zane

# 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 Wednesday
  - In-class review on Friday
- Creative Project 3 (C3) currently out
  - Due December 4<sup>th</sup> by 11:59 PM
- Resubmission Cycle 7 (R7) opens December 4<sup>th</sup>
  - Due December 8<sup>th</sup> by 11:59 PM
  - Submit anything but C3!
- Resubmission Cycle (R8) open during finals week
  - *During finals week* after C3: OOP It! feedback has been released
  - Will be added to course calendar soon!

# Announcements

- **Final Exam Review: In Class on December 8<sup>th</sup>!**
  - Led by TAs
  - Sections A & B will cover different materials (1 hr 40 min)
  - Recorded, so don't worry if you can't attend both!
- **Final Exam: Tuesday, December 12<sup>th</sup> 12:30 – 2:20 PM**
  - Preliminary details are [up on the course website!](#)
  - Coming Soon:
    - Seating Chart
      - Left-handed? Respond to [Jonathan's post](#) by December 4<sup>th</sup>!
    - Final Exam Study Guide/Resource Bank Document (Done!)
    - Past & Practice Exams (Done!)

# Lecture Outline

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

# 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 December 12th from 12:30 – 2:20 PM in KNE 110/120
- 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
- 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

- [Final Exam Resource Bank](#)
- Pre-Class Materials + Lectures
- Section Handouts
- Quizzes so Far
- Your Notes!
  - Helpful for contextualizing what you learned

# Lecture Outline

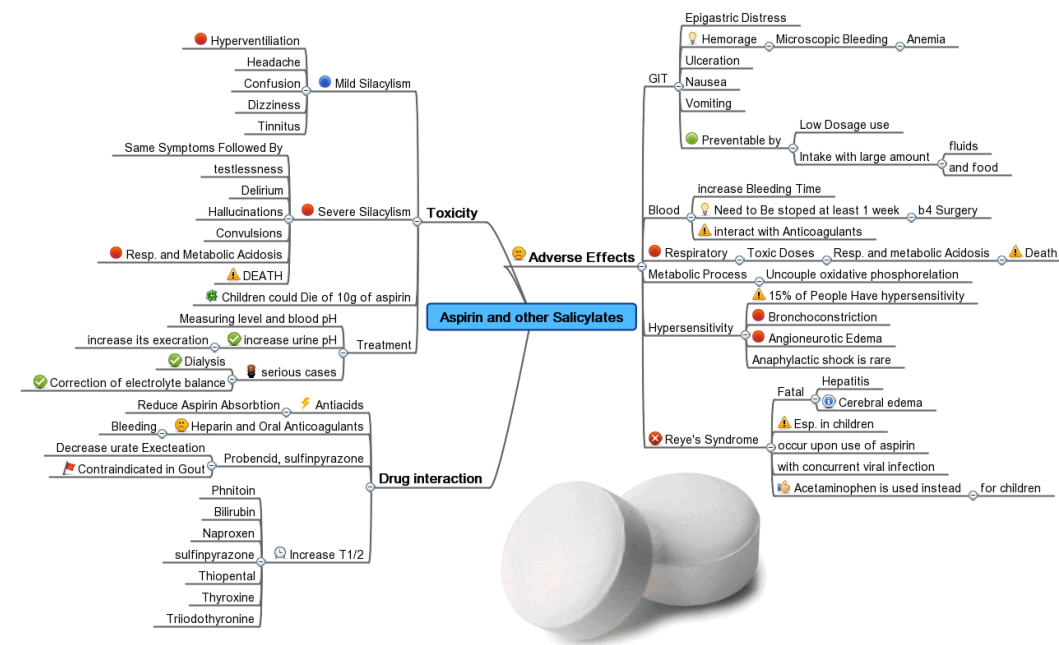
- Announcements
- Exam Logistics
- Review
- **How to Study** 
  - Mind Maps
- Practice: Stacks & Queues

# 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