

LEC 18

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: [122 24wi Lecture Tunes](#) 

Instructors Miya Natsuhara and Joe Spaniac


TAs

Ailsa	Chaafen	Helena	Megana	Sahej
Alexander	Chloe	Jessie	Mia	Shivani
Ambika	Claire	Katharine	Minh	Smriti
Andy	Colin	Kavya	Nicolas	Steven
Arkita	Colton	Ken	Poojitha	Vinay
Atharva	Connor	Kyle	Rohini	Zane
Autumn	Elizabeth	Logan	Ronald	
Ayush	Hannah	Marcus	Rucha	

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

Lecture Outline

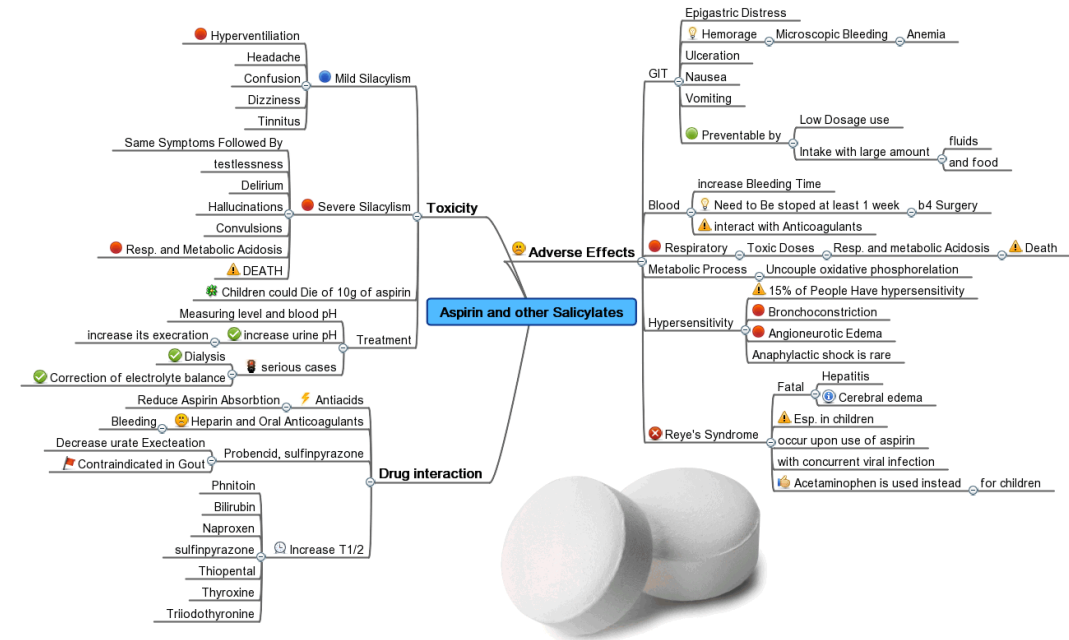
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Study Strategies


- 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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- How to Study
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- **Example Problems** 

Course Evaluations

Lecture A



Lecture B

