

LEC 17

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 are your best study strategies
for exams?*

Music: [Hunter/Miya's Playlist](#)

Instructor Hunter Schafer / Miya Natsuhara**TAs**

Ajay	Gaurav	Melissa
Andrew	Hilal	Noa
Anson	Hitesh	Parker
Anthony	Jake	Poojitha
Audrey	Jin	Samuel
Chloe	Joe	Sara
Colton	Joe	Simon
Connor	Karen	Sravani
Elizabeth	Kyler	Tan
Evelyn	Leon	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)



Lecture Outline

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

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

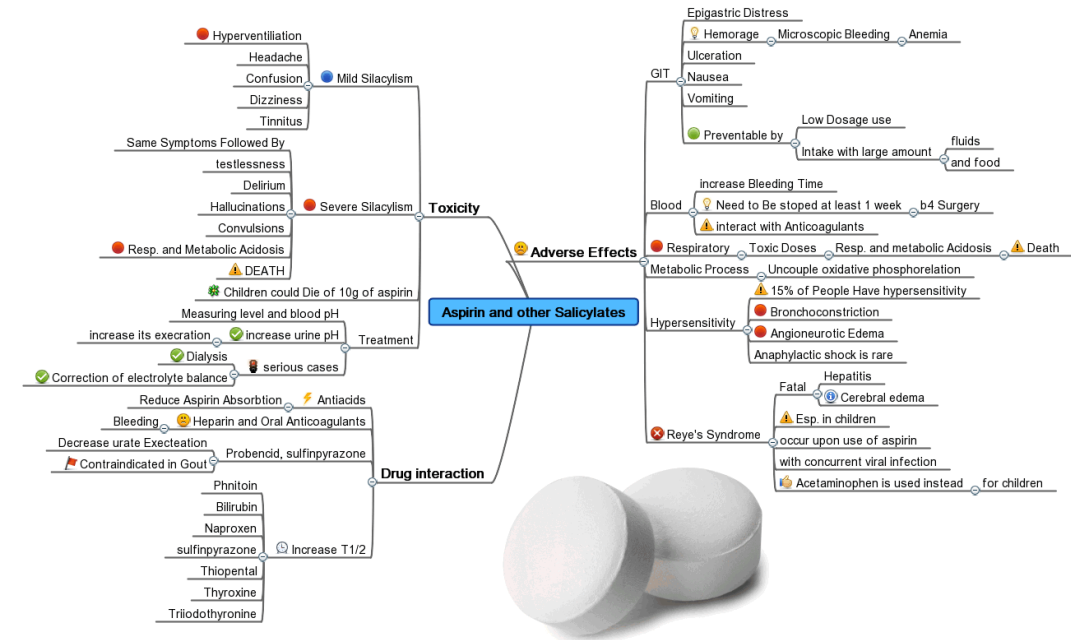
- Exam Logistics
- Review
- **How to Study** 
 - Mind Maps
- Practice: Stacks & Queues

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






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!

Lecture Outline

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