

CSSE 220 Day 10

Exam review
Game of Life work time

Today

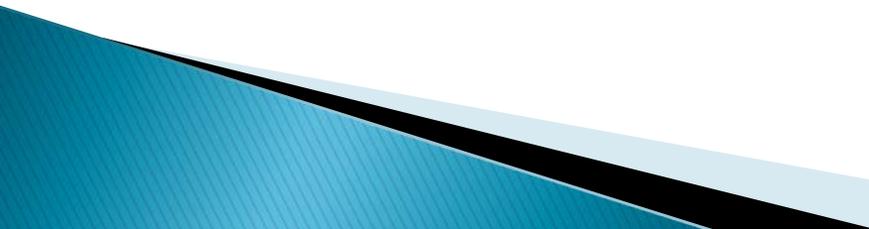
*Turn it in **Monday*** – also check with Claude regarding a more formal review for Exam 1. We'll use Game of Life as a form of preparation for Exam 1, but you should **ALSO** do more, as directed by Claude when he returns.

- ▶ Turn in your questions on material in preparation for exam 1 (HW9)
- ▶ Exam 1 review
- ▶ Work time for Game of Life

Exam Coming!

- ▶ Test on Thursday
 - In-class exam
 - Meet in your usual room at the usual time
- ▶ Topics from Chapters 1–7
- ▶ Will include:
 - An open computer exam with:
 - A paper part: short answer, fill-in-the-blank, trace-code-by-hand, draw box-and-pointer diagrams, find-errors-in-code, write short chunks of code, etc
 - A programming part: a few small programs, unit tests provided for some of them, you write unit tests for others
- ▶ Review in class today
 - What questions did you bring?
 - What topics would you like to review?
 - I didn't prepare anything but I'm happy to cover whatever you want, including working examples

Have you done these?

- ▶ Reviewed chapters 1 to 7 from Big Java
 - ▶ Prepared a sheet of notes to help you summarize what you consider important
 - ▶ Reviewed the slides, in-class quizzes, homework from sessions 1 to 9
 - ▶ Practiced programming, unit testing, documenting your code, & using the Java API
 - ▶ You can ask questions by email to the csse220-staff mailing list or your instructor
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Game of Life hints:

- ▶ Follow the TODO's. *Test as frequently as practical.*
 - If a part is hard, break it down into sub-parts and test each sub-part as you go.
- ▶ There are at least 3 clever ways to avoid cluttering code that references cells with IF's to ensure that they are not "off the edge of the board", namely:
 - "Wrap". For example, if the board is 10x10, attempts to reference `board[10][3]` are converted to `board[0][3]` (use the `%` operator).
 - Write a "getter" that gets the value of a cell and returns a sensible value (0?) if the reference is off the edge of the board. Ditto for a "setter" if needed.
 - For a 10x10 board, declare a 12x12 board and make the outer shell all empty cells. You will find that you never make them non-empty (loop from 1 to 10, not 0 to 11), so all is well.

Animating Game of Life

- ▶ How: use **Timer** class to automatically “click” button
- ▶ Details: in **GameOfLifeMain**:
 - Introduce local variable for **UpdateButton** object
 - Add timer code to end of main:
 - **Timer mrClicker =
 new Timer(INTERVAL, updateButton);
 mrClicker.start();**
- ▶ Learn more: Big Java, Ch. 9.9

Work Time

- ▶ Work with your partner on the Game of Life project
 - Get help as needed
- ▶ Remember:
 - Exam 1, Thursday during class
 - There is nothing to turn in for Homework 10
 - It just points you toward resources in preparing for the exam (or in taking it!)
 - **There IS something to do and turn in for Homework 11**
 - Reading, assessment on Angel over the reading, and finish Game of Life
 - **Due at the beginning of Session 12**

Before you leave today, make sure that you and your partner have **scheduled a session to complete the Game of Life project**

- Where will you meet?
 - **Try the CSSE lab F-217/225**
- When will you meet?
 - **Consider Thursday and Sunday evenings, 7 to 9 p.m.** (sometimes an assistant is there to 11 p.m.)
- **Exchange contact info** in case one of you needs to reschedule.
- **Do it with your partner.** If your partner bails out, DON'T do it alone until you communicate with your instructor.