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Administrivia

- Homework 7 due date extended to next week.
- Homework 8 due the following week. One required problem, one optional.
- One more homework, due during finals week. “Lecture topics and assignments” page shows due dates and final turn-in dates
- FYI, I renamed the Google Drive folders for the course (to “CSCI1120-shared” and “CSCI1120-individual”), though I doubt that will affect how you access them.
- If you miss a scheduled class and watch the recording instead, you can still claim your attendance point by sending me a minute essay for it. You can help me keep accurate records by mentioning the date in the Subject line.

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Recap of Video Lectures — Last Week

- Multi-dimensional arrays in C, several ways.
- Conway’s Game of Life and Homework 8.
(Most people said they had not heard of this game, though a few had, and some had seen code. Several commented that it sounded interesting. I think so!)
- Questions?

Recap of Video Lectures

- User-defined types (`typedef`, `enum`, `struct`, `union`).
- “Packaging” of library code and `make`.
- Questions?

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Arrays in Homeworks 7 and 8

- Homework 7 asks you, in effect, build a 2D “ragged” array of strings. Homework 8 asks you to work with code that builds and uses a 2D rectangular array of Boolean values.
- Both problems are based on a common strategy:
Set up a big 1D array of data (of `char` for HW 7, of `bool` for HW 8).
Set up an array of pointers that point into it.
(Picture?)

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Homework 8 and Conway's Game of Life

- First problem should be straightforward.
- Second problem is less so, but I think somewhat interesting, and a good use of dynamically allocated multi-dimensional arrays. (VLAs would likely be fine for the first problem, but not for the second.) Optional but will give you more practice working with command-line arguments.

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Homework 8 and Multi-Dimensional Arrays

- You don't actually have to write the code to build the arrays, just figure out how to work with it and then to use the arrays.

Homework 8 and make

- Possibly two programs, with a lot of common code. So I've structured the starter code with the likely common code separate from the main program(s).
- Note setup: Common code split into `.h` (declarations) and `.c` (definitions).
Very typical packaging for library code. `Makefile` says how to build.

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Open Lab Time

- (Use remainder of class period to work on homework, if you like.)

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Minute Essay

- What environment and tools are you using to do homeworks? How are they working for you?
- Now that you've had a couple of weeks of "remote learning": What's working well for you, what not so well?

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