Administrivia

- Reminder: Homework 6 due this week (Wednesday). Homework 7 originally due next week, now moved to a week later.

Slide 1

Recap of Video Lectures

- The C preprocessor: Feature most likely to be new and useful is macros. Remember that they're simple text substitution, not functions, so extra parentheses often highly advisable. (Is it clear why?)

- `make`.

Slide 2

(For what it's worth, the final two assignments for the course more or less rely on `make`.)

Homework 5 Revisited — Palindromes

Slide 3

- In Scala I would solve this problem using higher-order functions (filter and map) and the function to reverse a string. But I don't think this approach works well in C.

- My sense is that most students tried to adapt a Scala solution despite my suggestion to try a different approach.

  A "gotcha" in solutions involving copying (parts of) strings is not remembering to explicitly put in an end-of-string character. (What happens if you leave it out?)

Homework 7

Slide 4

- Problem to solve is sorting lines in a text file using `qsort()`. How? read the whole file into memory, build an array of pointers, sort the pointers.

- Writeup is long, yes, but it lays out a step-by-step procedure for developing the program. I'm a big fan of writing programs a little at a time!

Words from Spring 2020

Slide 5

- Some words from the class on this week's topics from Spring 2020, right after Trinity closed campus because of the pandemic:

- "Headline news is getting scary these days. Almost makes me wonder whether to just ignore it? though that doesn't seem like a great idea either." "We in CS understand what "exponential growth" is, so we worry more?"

- It's been a strange going-on-two-years.

Minute Essay

Slide 6

- Questions about the video lectures, upcoming homework?

- What were you doing in Spring 2020? (I'm thinking some of you are in the age contingent whose senior year of high school was so not-what-you-hoped?)