

Slide 1

Administrivia

- Reminder: Homework 6 due today.
- Homework 7 posted; due in two weeks. Only one problem, but more difficult.
(Preview: Two more homeworks planned. More difficult than previous assignments, but maybe also more interesting?)
- Everything graded; I also e-mailed each of you a grade summary.
If you didn't turn in one or more assignments, I'm willing to accept them late, for part credit, *as long as you haven't looked at a sample solution.*

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Minute Essay From Last Lecture

- About workload, most people thought it was about right, though not everyone! Only a few thought it was maybe too light; more thought it was a bit heavy, because assignments took more time than is right for a 1-unit course. Several people mentioned other demanding courses. Agreed that if you're taking several CSCI courses the combined workload could be a bit much!
- A couple of people explicitly mentioned that it helped to start the assignments before the last minute. Agreed!

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Homework 5 Revisited — Palindromes

- 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.
- In past semesters my sense is that most students tried to adapt a Scala solution despite my suggestion to try a different approach. This semester more tried doing it the way I suggest. "Hm!"?
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?)

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Homework 5 Essays

- Many people commented on how different working with strings is in C. I think that's true even if you try an approach based on filtering!
- Nothing else really stood out, except maybe that several people commented that the problem to solve was kind of interesting. I think so!

Recap of Video Lectures

- Memory allocation in C with `malloc()` and `free()`.
- Function pointers in C.
- Questions?

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Homework 7

- 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!
- (Rest of class period to work on Homework 6 and/or start Homework 7.)

Slide 6

Minute Essay

- Questions? Or just sign in.
- (Unless you feel inclined to tell me what you did over spring break?)

Slide 7