

Slide 1

Administrivia

- Reminder: Homework 4 (loops and arrays) due today.
- Homework 5 (string handling) posted. Due next week.
- Homework 6 (files and I/O) to be posted soon. Due in two weeks.
- As mentioned in e-mail, I'm sharing grade information with you via individual shared-with-you Google Drive folders. I put some time into this, especially the feedback on homeworks, so if you have any trouble with access please speak up!

Slide 2

Recap of Video Lectures (Group 4)

- An introduction to pointers — perhaps most difficult topic this course addresses, and one that matters most in preparing you for Data Abstraction.
- Strings in C, and how they're different from strings in many other languages. As with so many things in C, interface is a thin veneer over the implementation.
- Command-line arguments in C.

Recap of Video Lectures (Group 5)

Slide 3

- Files in C.
- Nothing very deep here, though how C deals with errors is different from how more-recent languages do.
- As with other languages I can think of, opening a file for output in C either creates it or overwrites it.
- One thing to maybe note is that C rather encourages reading a character at a time rather than a line at a time as many other languages do. (This is because of low-level approach to strings.)

Homework 5

Slide 4

- I-hope-interesting problem, namely identifying palindromes.
- Can be solved easily and compactly in languages with rich string libraries, such as Scala. But solutions are apt to involve a lot copying.
- Solutions involving copying less attractive in C. Approaches using pointers into strings may be more attractive.
- Example: Sample program `compare.c`.
- Example: Program to reverse string in place (write “live”?).

Minute Essay

- Have you tried to access your grade-information folder on Google Drive? Is the information there helpful?

Slide 5