

Slide 1

### Administrivia

- Next homework to be on the Web soon. I will send mail.

Slide 2

### Review — Loops and Arrays in C

- Two basic kinds of loops — `while` and `for` (three if you also count `do ... while`).
- Arrays conceptually similar to arrays in higher-level languages, but underlying implementation shows through more clearly, maybe, in the lack of safety checks and extra(?) features.

### Arrays — Example(s)

- A familiar(?) thing to do with a collection of data — sort it.
- So let's sketch a program to sort an array. For now, have the program generate the data using `rand()`.

Slide 3

### Pointers in C — Preview

- C, in contrast to Scala and Java (and Python), makes an explicit distinction between things and pointers-to-things. In Python and Scala variables are pointers/references to objects, and you deal with them fairly abstractly. In Java, variables are either references to objects, or primitives, but one or the other.
- In C, you can have variables that are “things” (integers, floating-point numbers, etc.) and variables that are “pointers to things” (in some ways more like variables in Python and Scala, but very low-level and with fewer safety checks).

Slide 4

## Minute Essay

- None — sign in. (Also tell me whether you were in class last week.)

Slide 5