Slide 1

Administrivia

- Homework 4 on Web; due next Monday.

Slide 2

Arrays of Text Strings and Command-Line Arguments

- If you can have arrays of `int` and `char` and so forth — can you have arrays of text strings? Sure! They look like two-dimensional arrays of `char`, or like arrays of `char *`.
- Further, this is how C programs get input "from the command line" (e.g., when you write `gcc myprogram.c`, `gcc` somehow gets `myprogram.c`, right?):

  `main` can also be defined as

  ```
  int main(int argc, char * argv[]) { .... }
  ```

  where `argc` is the number of arguments, plus one, and `argv` is an array of strings containing the arguments. Example — let's write a simple "echo" program.

Slide 3

I/O in C — Recap

- Character-at-a-time I/O with `getchar`, `putchar`. Simple text output with `puts`.
- Formatted I/O with `scanf`, `printf`. Return value indicates success/failure.
- I/O to files with `fopen`, file-oriented versions of the above, then `fclose`.
- Text-string input is surprisingly difficult to do safely. `fgets` probably works best.
- Examples as time permits . . .

Slide 4

Minute Essay

- None — sign in.