

Lecture 14: October 25, 2019

Reading: *C text*, §11

Assignments: Homework #2, due October 25, 2019

1. Greetings and felicitations!
 - (a) Extending homework 2's due date through Friday at 11:59pm; *however* if you turn it in by Wednesday at 11:59pm, I will not penalize you. But homework 3 will go out on Friday and will be due November 6.
2. Arrays of strings
 - (a) `int main(int argc, char *argv[])` (same as `int main(int argc, char **argv)`)
 - (b) Example programs: *echo.c*, *echo2.c*
3. Files
 - (a) Review files and file pointers — mention file descriptors as underlying mechanism
 - (b) Standard I/O library (*stdio.h*)
 - (c) Standard input, output, error (**`stdin`**, **`stdout`**, **`stderr`**)
 - (d) Opening, closing files (*fopen*, *fclose*)
4. Reading, writing characters and lines
 - (a) Reading text data as lines (*fgets*, *gets* — do not use this!)
 - (b) Reading text data as characters (*fgetc*, *getc*, *getchar*, *ungetc*)
 - (c) Writing text data as lines (*fputs*, *puts*— latter adds a trailing newline)
 - (d) Writing text data as characters (*fputc*, *putc*, *putchar*)
5. Reading, writing text data with a fixed format
 - (a) Reading in text data with a fixed format (*fscanf*, *scanf*)
 - (b) Outputting text data with a fixed format (*fprintf*, *printf*)