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## Outline for April 10, 2002

**Handouts:** More Sample C Programs

**Reading:** Johnsonbaugh & Kalin pp. 153–176, 230–237, 305–329

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1. Greetings and felicitations!
  - a. Homework, problem 3: review scanf and how to read in integers
  - b. Homework, problem 4: floating point constants (1.0F) vs. double constants (1.0)
  - c. Homework, problem 5: how to input newline (^V^J), carriage return (^V^M), bell (^G), form feed (^L), vertical tab (^K), NUL (^2).
2. dands2.c
  - a. switch
3. pow.c
  - a. function prototype & declaration
  - b. pass by value vs. pass by reference; C always the former
  - c. scope in functions
  - d. returning values
4. copy1.c
  - a. strings (NUL-terminated arrays)
  - b. printing strings
5. copy2.c
  - a. definition of pointer; address of variables (&), dereferencing of pointer (\*)
  - b. how it is used
  - c. pointer arithmetic (in the printf)
6. swaps.c
  - a. pointers and parameter lists
  - b. pointers and var paramaters