

## Outline for April 11, 2024

**Reading:** *zyBooks text* §6.1–6.8

**Assignments:** Homework #1, due April 18, 2024

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1. Functions in C
  - (a) Parameters: pass (or call) by value
  - (b) Arguments: instantiations of parameters matched in order
  - (c) Return values
  - (d) Scope: local variables [*scope.c*]
  - (e) Show the program stack and how it relates to functions
2. Pointers and indirection
  - (a) A pointer is an address
  - (b) Declarations
  - (c) Address (&), dereference (\*) operators
  - (d) Indirect references
3. More on functions in C
  - (a) Parameters: pass (or call) by reference (also called output parameters)
  - (b) Example: swap function — exchange values of two variables (*swap.c*)
  - (c) Scope: local variables (*scope.c*)