Outline for April 4, 2023

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Reading: zyBooks text §1, 2.20; Handouts 3, 4
Assignments: Homework #1, due April 15, 2024
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1. Example program 2: fahr1.c
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- (a) Program (main, return or exit for main)
- (b) Declarations (int, register int)
- (c) Body (while, printf)
- 2. Variable names
- 3. Basic types
 - (a) int, long vs. short, unsigned vs. signed
 - (b) **char**, treated like an **int** that holds 1 character
 - (c) float, double
 - (d) Type casting
- 4. Basic operators
 - (a) arithmetic: +, -, *, /, %
 - (b) % defined so that n % p = r implies n = ap + r for some a
 - (c) 5 % -2 can be 1 (5 = $(-2) \times (-2) + 1$) or -1 (5 = $(-3) \times (-2) + (-1)$)
- 5. Associativity of operations
 - (a) Difference between associativity of operations and order of evaluation

Papers

- 3. Compiling and Executing Your Program, compiling.pdf
- 4. Writing a Program, writingprogram.pdf