Outline for April 3, 2002

**Handouts:** Sample Basic C Programs  
**Reading:** Johnsonbaugh & Kalin pp. 31–63

1. Greetings and felicitations!

2. fahr1.c  
   a. program (main, return or exit for main)  
   b. declarations (int, register int)  
   c. body (while, functions; printf)

3. Basic operators  
   a. arithmetic: +, -, *, /, %  
   b. % defined so that \( n \% p = r \) implies \( n = a \cdot p + r \) for some \( a \)  
   c. 5 % -2 can be 1 (5 = -2 * 3 + 1) or -1 (5 = -2 * 2 + -1)

4. fahr2.c  
   a. macros  
   b. include `<stdio.h>`