## **Outline for January 9, 2002**

- 1. Greetings and Felicitations!
- 2. Puzzle of the day
- 3. Robust Programming
  - a. Go through handout, emphasizing principles
  - b. Information hiding and abstraction
  - c. Error handling
- 4. Common Implementation Vulnerabilities
  - a. Unknown interaction with other system components (DNS entry with bad names, assuming finger port is finger and not chargen)
  - b. Overflow (year 2000, *lpr* overwriting flaw, *sendmail* large integer flaw, *su* buffer overflow)
  - c. Race conditions (xterm flaw, ps flaw)
  - d. Environment variables (vi one-upsmanship, loadmodule)
  - e. Not resetting privileges (Purdue Games incident)