

## ECE 329 HW #1

Write a simplified simulated UNIX shell. The simulated shell will *not* spawn additional processes to do the work but will simply run in a self-contained `.exe` file. Your console-based application should support the following commands and syntax:

- *login name*  
logs in user as *name* (no password required). *root* should be the default user. For simplicity, user names can be limited to 14 characters.
- *whoami*  
prints user name
- *date*  
prints the current date and time, in the standard Unix format  
Example: Fri Aug 17 14:16:31 EDT 2007
- *exit*

Your console should ignore extra whitespace typed by the user, and it should print appropriate error messages upon erroneous user input. When in doubt about desired behavior, run an actual UNIX/Linux shell.

The following library routines may be helpful: `gets` and `sscanf` (`stdio.h`); `CString` and `CTime` (MSDN).

Separately, answer the following problems in Chapter 1 of the Tanenbaum textbook: 1, 2, 3, 8, 9, 14, 15, 21, 22