CSE 80— Take-home Midterm

Yee **winter '97**

Name / Login: _____

There are a total of 8 questions on 7 pages. You should make sure that you have all the pages, and write your name and your login at the top of first page, and your login on the top of all subsequent pages. Pages of this exam may be separated and graded separately.

This test is open book, open notes, open computer. You may look at your *own* books, notes, and on-line manual pages all you want. You may **not** look at anybody else's books or notes, post questions to bboards, or otherwise obtain help from another human being.

When it is necessary to be precise, the symbol Δ will be used to denote a space character. You should do the same in your answers.

1. Describe what is meant by "filters" in Unix. What are they good for? What are the implications in a multiprocessor environment? (10pts)

Ans:

2. What is the difference between `"$@"` and `"$*"` when used in a POSIX shell script? (Note that the quotation marks are part of the string of characters.)

Ans:

3. What is the output of the command
`$ showargs△foo\△bar△baz'△"quux'`
Explain.

Ans:

4. What do the `-x` and `-v` flags do for the shell? What is the output when you run
`$ sh△-xv△../public/bin/showargs△foo\△bar△'baz△"quux'`

Ans:

5. Breaking the input into words, substituting in the output of backquoted commands, etc occur in distinct phases. Name the order in which the shell processes its input.

Ans:

6. What does the `fork` syscall do?

Ans:

7. What is RCS and what is it used for? What is "locking" in this context? What good is it?

Ans:

8. What additional subjects do want me to talk about?

Ans: