Due: Friday, November 21. Written: 4:00pm in 2131 Kemper.

Programs: 11:59pm using handin to cs30a p6 directory. Filenames: mmcode.c, sort_str_len.c, plurals.c, and prefix.c

Written: #1, #2, #3, #4, #8, #9, #10 on pages 494 – 495.

Programming. All programs should be able to compile with no warnings when compiled with the –Wall option. You should put your name(s) in a comment on the first line of each file. The prompts, and output format of each program must match the examples exactly.

(1) Programming problem #1 on page 448. Filename: mmcode.c

[davis@lect2 p7]\$ mmocode.out Enter a MMOC product code > ATL1203S14 Warehouse: ATL Product: 1203 Qualifiers: S14 [...@pc...] mmocode.out Enter a MMOC product code > SFO2009sabJ15 Warehouse: SFO Product: 2009sab Qualifiers: J15 [davis@lect2 p7]\$

(2) Programming problem #1 on page 463. Filename: sort str len.c

[...@pc...]\$ sort_str_len.out Enter number of strings (0 to 50) Enter 3 strings on separate lines pointer array address of Input strings Sorted in length pointer array address of pointer address of array [...@pc...]\$ sort_str_len.out Enter number of strings (0 to 50) Enter 4 strings on separate lines Does it exist? Time. What should we do without it? I gravely doubt it. Input strings Sorted in length Does it exist? Time.

Time. Does it exist? What should we do without it? I gravely doubt it.

I gravely doubt it. What should we do without it?

[...@pc...]\$

(3) Problem #5 on page 497. Filename: plurals.c

```
[...@pc...]$ plurals.out
Please enter a noun ("Done" = exit): chair
The plural of chair is chairs.
Please enter a noun ("Done" = exit): dairy
The plural of dairy is dairies.
Please enter a noun ("Done" = exit): boss
The plural of boss is bosses.
Please enter a noun ("Done" = exit): circus
The plural of circus is circuses.
Please enter a noun ("Done" = exit): fly
The plural of fly is flies.
Please enter a noun ("Done" = exit): dog
The plural of dog is dogs.
Please enter a noun ("Done" = exit): church
The plural of church is churches.
Please enter a noun ("Done" = exit): clue
The plural of clue is clues.
Please enter a noun ("Done" = exit): dish
The plural of dish is dishes.
Please enter a noun ("Done" = exit): Done
[...@pc...]$
```

(4) Problem #8 on page 498 Filename: prefix.c

Hint: just went through the two arrays character by character.

```
[...@pc...]$ prefix.out
Please enter two words: global glossary
The longest common prefix of global and glossary is glo.
[...@pc...]$ prefix.out
Please enter two words: department depart
The longest common prefix of department and depart is depart.
[...@pc...]$ prefix.out
Please enter two words: glove dove
The longest common prefix of glove and dove is .
[...@pc...]$ prefix.out
Please enter two words: lover love
The longest common prefix of lover and love is love.
[...@pc...]$ prefix.out
Please enter two words: long longer
The longest common prefix of long and longer is long.
[...@pc...]
```