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## System-Level Programming

### Lab 3

#### Part 2:

- 3) `$ vi RealEstate.csv` to access the file
- 4) `Shift + G` to get to the bottom line
- 5) `Ctrl + G` to display the line number
- 6) `/111 EAST` to search for the transaction
  - a. Line 5371
  - b. Move cursor to beginning of line and press `d` to delete the line
- 7) `:50` to get to the 50<sup>th</sup> line
- 8) `:50,54s/,/:g` to replace all commas in lines 50-54 with semicolons
- 9) `4yy` to copy lines 50-54 and `P` to paste them
- 10) `4dd` to delete the lines
- 11) Enter command mode and type `:1` to get to the first line. Press `I` to enter insert mode. Press enter and type in “Recorded in year 2008.”
- 12) Press `esc` to enter command mode
- 13) `:wq` to save the file and quit `vi`

#### Part 3:

```
[asiegel11@gsuad.gsu.edu@snowball Lab3]$ cat Try.c
cat: Try.c: Permission denied
[asiegel11@gsuad.gsu.edu@snowball Lab3]$
```

10) After typing `$chmod 444 Try.c`, the new permissions are `r - - r - - r - -`. This means that the owner, group, and public users all are only allowed to read the file and not allowed to write or execute the file.

15) The error message is “E45: ‘readonly’ option is set (add `!` to override).” The way to quit without saving is to type “`:q!`”

16) `chmod 666 Try.c`

17)The new permissions for the Try.c file is rw-rw-rw-. This means that the owner, group, and public users can read and write the file, but none of them can execute it.

Part 4:

Owner's Permissions	Ls	mkdir	cat >	rm	cp	cd
---	N	N	N	N/A	N/A	N
--x	N	N	N	N/A	N/A	Y
-w-	N	N	N	N/A	N/A	N
-wx	N	Y	Y	Y	Y	Y
r--	Y	N	N	N	N	N
r-x	Y	N	N	N	N	Y
rw-	Y	N	N	N	N	N
rwX	Y	Y	Y	Y	Y	Y