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Lab 3 Out-of-Lab Assignment

Part 2: VI Editing - Large file

1) Go into your Lab3 directory.

```
cd ~/Lab3
```

2) Copy "RealEstate.csv" from instructor's public directory to your Lab3 directory again.

```
cp /home/bbello1/Public/RealEstate.csv .
```

3) Use vi to open "RealEstate.csv".

```
vi RealEstate.csv
```

4) Move the cursor to the last line (without knowing the number of last line).

```
:$ or G
```

5) Display line number.

```
:set number
```

6) Search for the transaction for the estate located at "111 EAST"

/111 EAST/ then n to skip between results

Which line is this string located? (Please just write down the line number)

58

Delete this line.

```
dd
```

7) Move the cursor to the line 50.

```
:50
```

8) Substitute all comma "," with colon ":" from line 50 to line 54.

```
:50,54s/,/:/g
```

9) Copy line 50 to line 54 to the end of file.

```
:50,54y, then :$pu
```

10) Remove line 50 to line 54.

```
:50,50d
```

11) Describe how to enter the text mode and insert a new line "Recorded in year 2008" between line 1 and line 2.

→ To go to the first line enter :1 and then press o in order to create a new line between lines 1 and 2 and enter text mode, then type the required line.

12) Switch back to command mode.

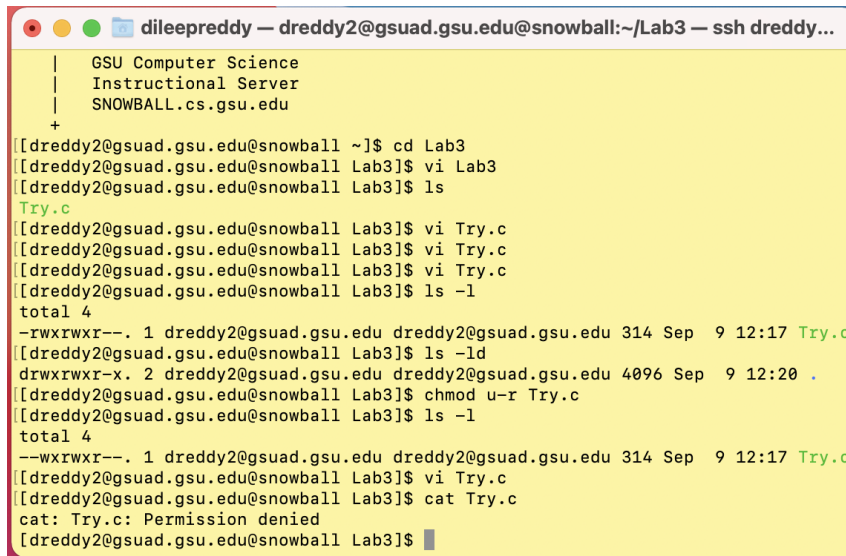
Press the <ESC> key

13) Save the file and quit vi.

:wq

Part 3: Permissions for files

10) Try read "Try.c" again using cat. Attach a screenshot of the output.



```
dileepreddy — dreddy2@gsuad.gsu.edu@snowball:~/Lab3 — ssh dreddy...
|   GSU Computer Science
|   Instructional Server
|   SNOWBALL.cs.gsu.edu
+
[[dreddy2@gsuad.gsu.edu@snowball ~]$ cd Lab3
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ vi Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ ls
Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ vi Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ vi Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ ls -l
total 4
-rwxrwxr--. 1 dreddy2@gsuad.gsu.edu dreddy2@gsuad.gsu.edu 314 Sep  9 12:17 Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ ls -ld
drwxrwxr-x. 2 dreddy2@gsuad.gsu.edu dreddy2@gsuad.gsu.edu 4096 Sep  9 12:20 .
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ chmod u-r Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ ls -l
total 4
--wxrwxr--. 1 dreddy2@gsuad.gsu.edu dreddy2@gsuad.gsu.edu 314 Sep  9 12:17 Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ vi Try.c
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$ cat Try.c
cat: Try.c: Permission denied
[[dreddy2@gsuad.gsu.edu@snowball Lab3]$
```

12) Check the file permissions for file "Try.c" again. And explain the meaning of each character in the file permission string.

-r--r--r--

In this string, the first dash means it is a file and not a directory, the first **r--** means that the owner has only read permission for this file, and it repeating means that group users as well as all other global users also have only read permission for this file.

15) Can you find some error message at the bottom of the screen? If yes, what is it and how to quit the vi editor without saving the modification.

E45: readonly option is set (add ! to override)

Because read-only permission has been set for this file for the owner user by chmod, it is not possible to save any edits made to this file. To quit the vi editor without saving the modification, the command **:q!** should be used (by adding **!** as the error message instructs)

16) Use chmod to add write the permission to all the users for "Try.c".

chmod a+w Try.c

17) Check the file permissions for file "Try.c" again. And explain the meaning of each character in the file permission string.

-rw-rw-rw-

In this string, the first dash means it is a file and not a directory, the first **rw-** means that the owner has read and write (but not execute) permission for this file, and it repeating means that group users as well as all other global users also have the same permissions for this file.

Part 4: Permissions for directories

Owner's Permission	ls A. Read contents	mkdir B. Create sub-directory	cat > C. Create File	rm D. Remove contents	cp E. Copy contents from	cd F. Enter into directories
—	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/A	N/A	N
r-x	Y	N	Y	N/A	Y	Y
rw-	Y~	N	N	N/A	N/A	N
rwX	Y	Y	Y	Y	Y	Y

Table 1. Success of commands under different permissions on ~/Lab3