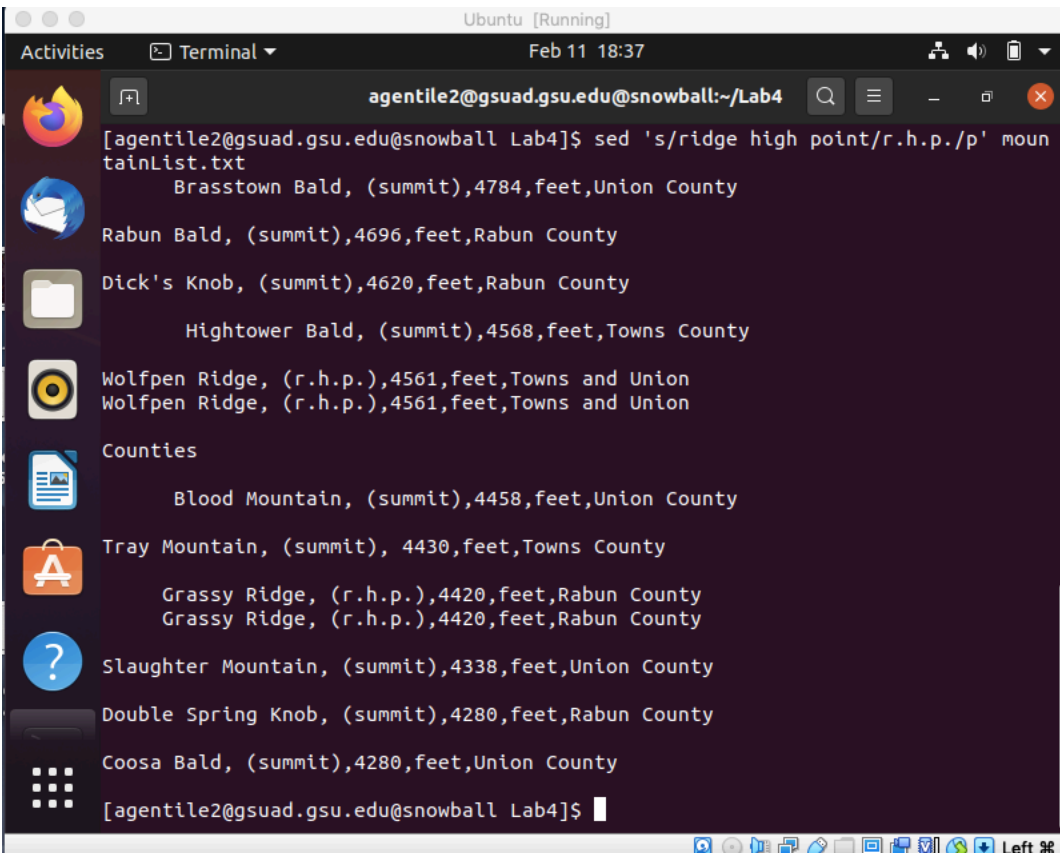


Alexandra Gentile  
Lab 4

4a.



```
agentile2@gsuad.gsu.edu@snowball:~/Lab4
[agentile2@gsuad.gsu.edu@snowball Lab4]$ sed 's/ridge high point/r.h.p./p' mountainList.txt
Brasstown Bald, (summit),4784,feet,Union County
Rabun Bald, (summit),4696,feet,Rabun County
Dick's Knob, (summit),4620,feet,Rabun County
Hightower Bald, (summit),4568,feet,Towns County
Wolfpen Ridge, (r.h.p.),4561,feet,Towns and Union
Wolfpen Ridge, (r.h.p.),4561,feet,Towns and Union
Counties
Blood Mountain, (summit),4458,feet,Union County
Tray Mountain, (summit), 4430,feet,Towns County
Grassy Ridge, (r.h.p.),4420,feet,Rabun County
Grassy Ridge, (r.h.p.),4420,feet,Rabun County
Slaughter Mountain, (summit),4338,feet,Union County
Double Spring Knob, (summit),4280,feet,Rabun County
Coosa Bald, (summit),4280,feet,Union County
[agentile2@gsuad.gsu.edu@snowball Lab4]$
```

The screenshot shows a terminal window titled "Ubuntu [Running]" with a date and time of "Feb 11 18:39". The terminal prompt is "agentile2@gsuad.gsu.edu@snowball:~/Lab4". The terminal displays a list of mountain peaks with their elevations and locations. The list is as follows:

- Rabun Bald, (summit),4696,feet,Rabun County
- Dick's Knob, (summit),4620,feet,Rabun County
- Hightower Bald, (summit),4568,feet,Towns County
- Wolfpen Ridge, (r.h.p.),4561,feet,Towns and Union
- Wolfpen Ridge, (r.h.p.),4561,feet,Towns and Union
- Counties
- Blood Mountain, (summit),4458,feet,Union County
- Tray Mountain, (summit), 4430,feet,Towns County
- Grassy Ridge, (r.h.p.),4420,feet,Rabun County
- Grassy Ridge, (r.h.p.),4420,feet,Rabun County
- Slaughter Mountain, (summit),4338,feet,Union County
- Double Spring Knob, (summit),4280,feet,Rabun County
- Coosa Bald, (summit),4280,feet,Union County

The terminal also shows the execution of a sed command: "[agentile2@gsuad.gsu.edu@snowball Lab4]\$ sed -n 's/ridge high point/r.h.p./p' mountainList.txt". The output of the command is:

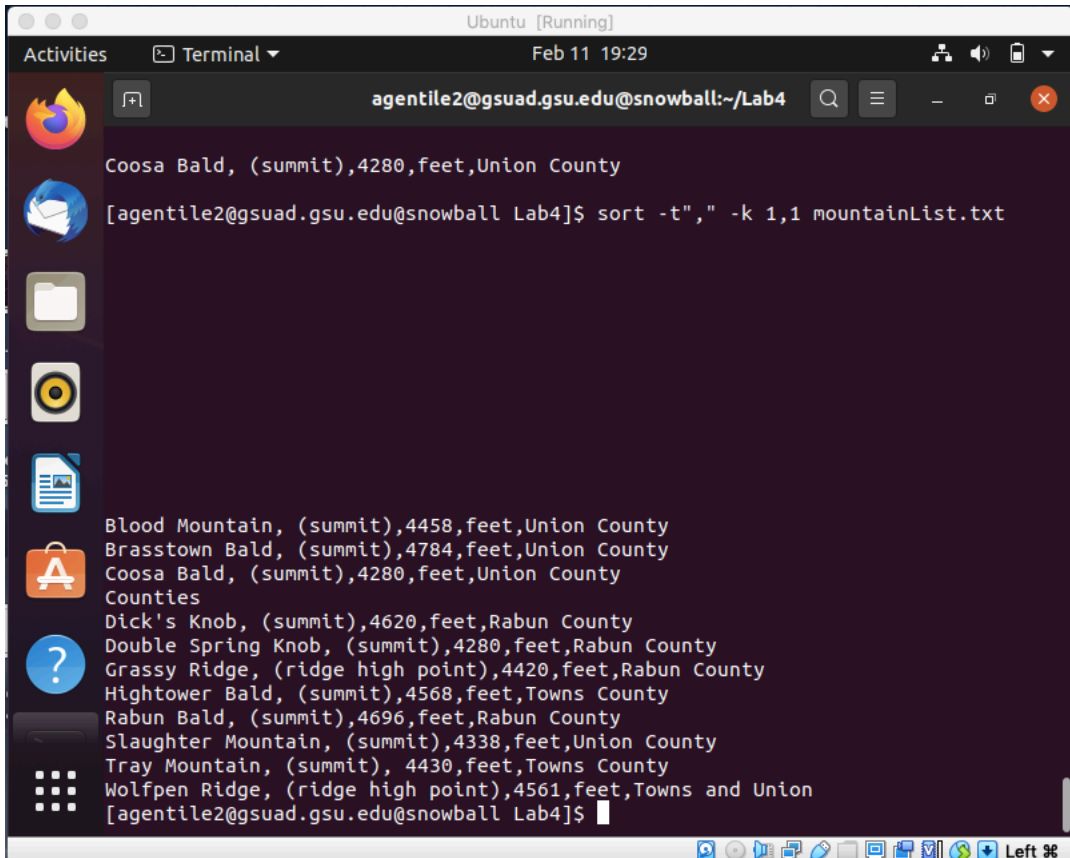
```
Wolfpen Ridge, (r.h.p.),4561,feet,Towns and Union
Grassy Ridge, (r.h.p.),4420,feet,Rabun County
```

The terminal prompt is now "[agentile2@gsuad.gsu.edu@snowball Lab4]\$".

4b.

4c. -n in sed suppresses automatic printing of pattern space

4d. in B, the sed command only prints out the string that contains "r.h.p" by finding ridge high point and replacing it with the string r.h.p.

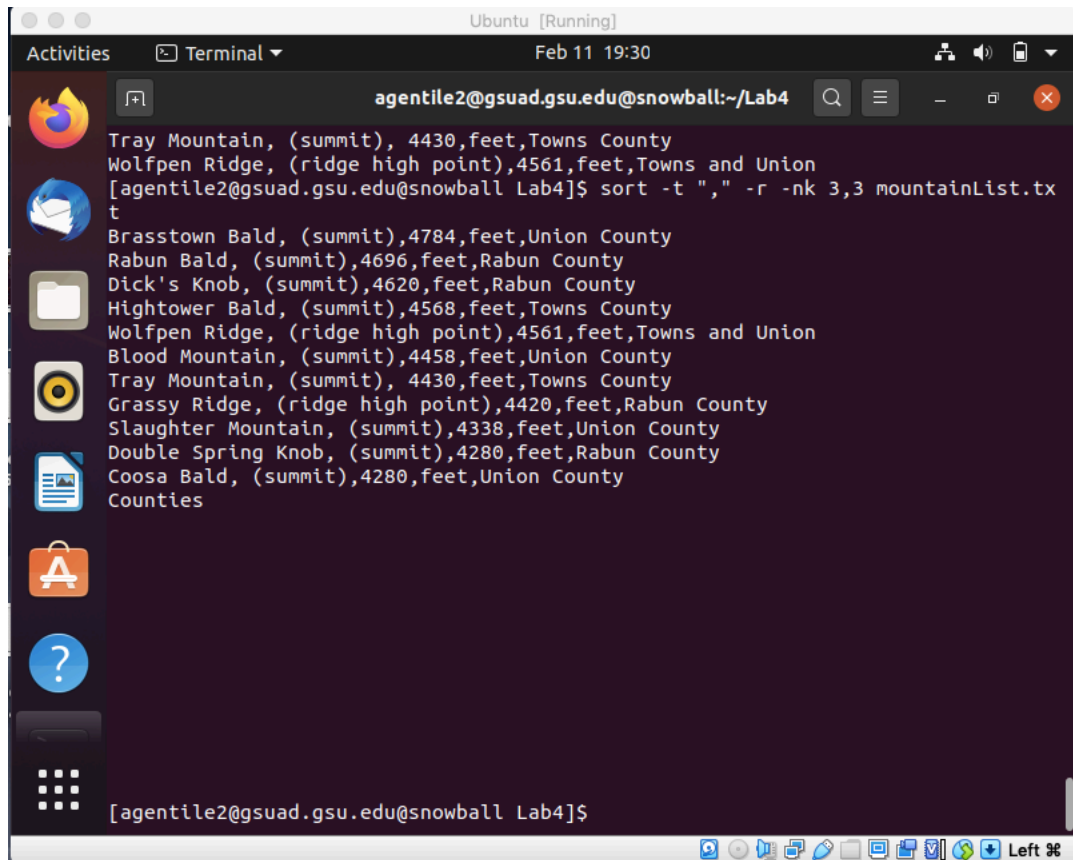


Ubuntu [Running]  
Activities Terminal Feb 11 19:29  
agentile2@gsuad.gsu.edu@snowball:~/Lab4

```
Coosa Bald, (summit),4280,feet,Union County  
[agentile2@gsuad.gsu.edu@snowball Lab4]$ sort -t"," -k 1,1 mountainList.txt  
  
Blood Mountain, (summit),4458,feet,Union County  
Brasstown Bald, (summit),4784,feet,Union County  
Coosa Bald, (summit),4280,feet,Union County  
Counties  
Dick's Knob, (summit),4620,feet,Rabun County  
Double Spring Knob, (summit),4280,feet,Rabun County  
Grassy Ridge, (ridge high point),4420,feet,Rabun County  
Hightower Bald, (summit),4568,feet,Towns County  
Rabun Bald, (summit),4696,feet,Rabun County  
Slaughter Mountain, (summit),4338,feet,Union County  
Tray Mountain, (summit), 4430,feet,Towns County  
Wolfpen Ridge, (ridge high point),4561,feet,Towns and Union  
[agentile2@gsuad.gsu.edu@snowball Lab4]$
```

12.

13.



The screenshot shows a terminal window titled "Ubuntu [Running]" with a date and time of "Feb 11 19:30". The terminal is running a command to sort a file named "mountainList.txt" by the third column (height) in descending order. The output lists ten mountains with their names, features, heights, and counties. The terminal window has a dark purple background and a sidebar on the left with various application icons. The bottom of the window shows a system tray with icons for network, volume, and other system functions.

```
agentile2@gsuad.gsu.edu@snowball:~/Lab4
Tray Mountain, (summit), 4430,feet,Towns County
Wolfpen Ridge, (ridge high point),4561,feet,Towns and Union
[agentile2@gsuad.gsu.edu@snowball Lab4]$ sort -t "," -r -nk 3,3 mountainList.tx
t
Brasstown Bald, (summit),4784,feet,Union County
Rabun Bald, (summit),4696,feet,Rabun County
Dick's Knob, (summit),4620,feet,Rabun County
Hightower Bald, (summit),4568,feet,Towns County
Wolfpen Ridge, (ridge high point),4561,feet,Towns and Union
Blood Mountain, (summit),4458,feet,Union County
Tray Mountain, (summit), 4430,feet,Towns County
Grassy Ridge, (ridge high point),4420,feet,Rabun County
Slaughter Mountain, (summit),4338,feet,Union County
Double Spring Knob, (summit),4280,feet,Rabun County
Coosa Bald, (summit),4280,feet,Union County
Counties
[agentile2@gsuad.gsu.edu@snowball Lab4]$
```

```
agentile2@gsuad.gsu.edu@snowball:~/Lab4  
[agentile2@gsuad.gsu.edu@snowball Lab4]$ sed -E 's/(Union)s(County)/\1:\2/g' mountainList.txt  
Brasstown Bald, (summit),4784,feet,Union:County  
Rabun Bald, (summit),4696,feet,Rabun County  
Dick's Knob, (summit),4620,feet,Rabun County  
Hightower Bald, (summit),4568,feet,Towns County  
Wolfpen Ridge, (ridge high point),4561,feet,Towns and Union  
Counties  
Blood Mountain, (summit),4458,feet,Union:County  
Tray Mountain, (summit), 4430,feet,Towns County  
Grassy Ridge, (ridge high point),4420,feet,Rabun County  
Slaughter Mountain, (summit),4338,feet,Union:County  
Double Spring Knob, (summit),4280,feet,Rabun County  
Coosa Bald, (summit),4280,feet,Union:County  
[agentile2@gsuad.gsu.edu@snowball Lab4]$
```

14.