

Jamie Lopez

CSC3320 Lab 4 Part 2

Due: 2/12/2021

CRN 11173-004

Lab 4 – Practices pm the grep, fgrep, egrep, sed, awk, and sort command for text processing

1)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ grep -E 'Union|Towns' mountainList.txt
    Brasstown Bald, (summit),4784,feet,Union 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
    Slaughter Mountain, (summit),4338,feet,Union County
    Coosa Bald, (summit),4280,feet,Union County
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

2)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ grep 'Rabun' mountainList.txt | wc -l
4
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

3)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ grep -c 'Rabun' mountainList.txt
4
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

4A)

```
[jrogers75@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

[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

4B)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed -n 's/ridge high point/r.h.p./p' mountainList.txt
Wolfpen Ridge, (r.h.p.),4561,feet,Towns and Union
    Grassy Ridge, (r.h.p.),4420,feet,Rabun County
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

4C) -n in sed suppresses the automatic printing of pattern space

4D) The text 'Ridge High Point' was replaced with 'r.h.p.'. Also, the output is showing only the lines with data that was replaced without displaying duplicate entries.

5)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed 's/^ *//' 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

[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

6)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed 's/^ *//' mountainList.txt > newList.txt
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ ls
CSC_Course.txt  mountainList.txt  newList.txt
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ cat newList.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
```

7)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed -n '/^\s/ p' mountainList.txt
    Brasstown Bald, (summit),4784,feet,Union County
    Hightower Bald, (summit),4568,feet,Towns County
    Blood Mountain, (summit),4458,feet,Union County
    Grassy Ridge, (ridge high point),4420,feet,Rabun County
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

8)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed '/Union County/d' mountainList.txt

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

Tray Mountain, (summit), 4430,feet,Towns County
    Grassy Ridge, (ridge high point),4420,feet,Rabun County

Double Spring Knob, (summit),4280,feet,Rabun County

[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

9)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed -nr 's/,([^\s]*){3},/,/g p' mountainList.txt
    Brasstown Bald,Union County
Rabun Bald,Rabun County
Dick's Knob,Rabun County
    Hightower Bald,Towns County
Wolfpen Ridge,Towns and Union
    Blood Mountain,Union County
Tray Mountain,Towns County
    Grassy Ridge,Rabun County
Slaughter Mountain,Union County
Double Spring Knob,Rabun County
Coosa Bald,Union County
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```


10)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ awk -F, '{print $1, "$5}' mountainList.txt
    Brasstown Bald, Union County
,
Rabun Bald, Rabun County
,
Dick's Knob, Rabun County
,
    Hightower Bald, Towns County
,
Wolfpen Ridge, Towns and Union
,
Counties,
,
    Blood Mountain, Union County
,
Tray Mountain, Towns County
,
    Grassy Ridge, Rabun County
,
Slaughter Mountain, Union County
,
Double Spring Knob, Rabun County
,
Coosa Bald, Union County
,
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

11)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ cat sed11
11\
Table: Eleven highest mountains in Georgia\
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed -f sed11 mountainList.txt
Table: Eleven highest mountains in Georgia

    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

Coosa Bald, (summit),4280,feet,Union County
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

12)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sort 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
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```

13)

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sort -r +2 -3 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
Blood Mountain, (summit),4458,feet,Union County
Slaughter Mountain, (summit),4338,feet,Union County
Coosa Bald, (summit),4280,feet,Union County
Tray Mountain, (summit), 4430,feet,Towns County
Wolfpen Ridge, (ridge high point),4561,feet,Towns and Union
Grassy Ridge, (ridge high point),4420,feet,Rabun County
Double Spring Knob, (summit),4280,feet,Rabun County
Counties
```


14)

```
[jrogers75@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
```

15) I have tried so many ways and still haven't been able to puzzle out the exact solution. Here is my latest failed attempt:

```
[jrogers75@gsuad.gsu.edu@snowball Lab4]$ sed -E -n '/^(*,)(*,)(*,)(*,)(*,)\1,\5  
/p' mountainList.txt  
sed: -e expression #1, char 28: Invalid preceding regular expression  
[jrogers75@gsuad.gsu.edu@snowball Lab4]$
```