

Alex Siegel

System-Level Programming

Lab 4b

1) \$ grep 'Towns\|Union' mountainList.txt

```
[asiegel111@gsuad.gsu.edu@snowball Lab4]$ grep 'Towns\|Union' 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
[asiegel111@gsuad.gsu.edu@snowball Lab4]$
```

2) \$ grep 'Rabun County' mountainList.txt | wc -l

```
[asiegel111@gsuad.gsu.edu@snowball Lab4]$ grep 'Rabun County' mountainList.txt | wc -l
4
[asiegel111@gsuad.gsu.edu@snowball Lab4]$
```

3) \$ grep -c 'Rabun County' mountainList.txt

```
[asiegel111@gsuad.gsu.edu@snowball Lab4]$ grep -c 'Rabun County' mountainList.txt
4
[asiegel111@gsuad.gsu.edu@snowball Lab4]$
```

4a)

```
[asiegel11@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
[asiegel11@gsuad.gsu.edu@snowball Lab4]$
```

4b)

```
[asiegel11@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
[asiegel11@gsuad.gsu.edu@snowball Lab4]$
```

4c) The -n in sed suppressed the automatic printing of pattern space

4d) the sed -n command in part b only prints out the mountains that appear in the list multiple times

- 5) sed 's/^ \*/' mountainList.txt

```
[asiegell1@gsuad.gsu.edu@snowball Lab4]$ sed 's/^ */' mountainList.txt 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
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
[asiegell1@gsuad.gsu.edu@snowball Lab4]$
```

- 6) sed 's/^ \*/' mountainList.txt >newList.txt

```
[asiegell1@gsuad.gsu.edu@snowball Lab4]$ sed 's/^ */' mountainList.txt > newList.txt
[asiegell1@gsuad.gsu.edu@snowball Lab4]$ ls
mountainList.txt  newList.txt
```

- 7) sed -n '/^[[[:space:]]/p' mountainList.txt

```
[asiegell1@gsuad.gsu.edu@snowball Lab4]$ sed -n '/^[[[:space:]]/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
[asiegell1@gsuad.gsu.edu@snowball Lab4]$
```

- 8) sed '/Union County/d' mountainList.txt

```
[asiegell1@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
[asiegell1@gsuad.gsu.edu@snowball Lab4]$
```

- 9) \$ sed -r 's/,[^,]\*,[^,]\*,[^,]\*,/,/g' mountainList.txt

```
[asiegell11@gsuad.gsu.edu@snowball Lab4]$ sed -r 's/,[^,]*,[^,]*,[^,]*,/,/g' 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
[asiegell11@gsuad.gsu.edu@snowball Lab4]$
```

10)?

11) Sed -f sed1 mountainList.txt

```
[asiegell11@gsuad.gsu.edu@snowball Lab4]$ cat >sed1
li\
Table: Eleven highest mountains in Georgia
[asiegell11@gsuad.gsu.edu@snowball Lab4]$ sed -f sed1 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
[asiegell11@gsuad.gsu.edu@snowball Lab4]$
```

12) Sort -tc +0 -2 mountainList.txt

```
[asiegell11@gsuad.gsu.edu@snowball Lab4]$ sort -tc +0 -2 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
[asiegell11@gsuad.gsu.edu@snowball Lab4]$
```

13)?

14) sed -E 's/(Union)\s(County)/\1:\2g' mountainList.txt

```
[asiegel11@gsuad.gsu.edu@snowball Lab4]$ sed -E 's/((Union)\s(County))/\1:\2/g' mountainList.txt
    Brasstown Bald,4784,Union:County
Rabun Bald,4696,Rabun County
Dick's Knob,4620,Rabun County
    Hightower Bald,4568,Towns County
Wolfpen Ridge,4561,Towns and Union
Counties
    Blood Mountain,4458,Union:County
Tray Mountain, 4430,Towns County
    Grassy Ridge,4420,Rabun County
Slaughter Mountain,4338,Union:County
Double Spring Knob,4280,Rabun County
Coosa Bald,4280,Union:County
[asiegel11@gsuad.gsu.edu@snowball Lab4]$
```

15) sed -E 's/.\*,/,/' mountainList.txt

```
[asiegel11@gsuad.gsu.edu@snowball Lab4]$ sed -E 's/.*,/,/' 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
[asiegel11@gsuad.gsu.edu@snowball Lab4]$
```