Week4Answers.md 9/24/2018

Week 4 Answers

Devin Comba My VM was not responding, so I used Visual Studio Code on my own computer.

1. Empty fields in each file and also the files differed in the size of the empty fields.

```
2. Cleaning
```

```
find: ;, replace: \t
find: \t\t, replace: \tNaN\t
find: ( |\t)$, replace: "
find: , replace: _ on line 1
find: ^(NaN\t){16}\n, replace: "
find: (?:\.\d)\d\d, replace: "
```

- 3. To put the header line in the file: grep MH_Time .\StrdIn_Twater_090611-090828_corrd.csv > 2009Measurements.txt To put the data from all three data files into the new file: grep -rh "^2009.*" . >> .\2009Measurements.txt
- 4. Used the same type of command as in 3 to add header t the new file. To add lines w/o Nan: sed -r 's/^.NaN.//' .\Strdln_Twater_090829-091012_corrd.csv >>..\completeLakeTemps.txt for each data file
- 5. To capture and put the 1st of the month measurements into new file: grep -rh '[0-9][0-9][0-9]-[0-9] [0-9]-01' >> ..\SemiMonthlyLakeTemps.txt To capture and put 15th of the month measurements into new file: grep -rh '[0-9][0-9][0-9][0-9]-[0-9][0-9]-15' >> ..\SemiMonthlyLakeTemps.txt
- 6. To get measurements from midnight to 6am: grep -rh '^........0[0-6]' . > NightTimeLakeTemps.txt To get measurements from 8pm to midnight: grep -rh '^.........2[0-4]' . >> NightTimeLakeTemps.txt
- 7. awk '{print \$3}' ./* >> depth 0.1m.txt