

Lab #5

Task 1:

Question: “How many common stocks went public since March 1st, 2021?”

Dataset: [Recent IPOs of common stocks](#)

Answer: 79 common stocks have gone public since March 1st, 2021.

Summary: Initially, I had a hard time transferring my CSV file from my local machine to the school's Linux server. I tried a number of ways to do this using scp however, was not successful. I finally came up with a workaround, which was to upload the csv file to my Github and then clone my repo so that I could access the CSV file from the terminal. Once I was able to do this, I played around with a number of awk and grep commands until I figured out how to search lines for specific text. Although there is surely a more intelligent way to go about parsing dates, and date ranges in a file, I was having a hard time finding a way that would work when the date log was NOT at the start of the file. In my case, the dates were the 7th column of the file, and it was challenging to search it for a range. Ultimately I decided to search the file using grep for any text that started with “03/...” which would pull up all the companies who IPO'd in March. Please check out the log below to see my journey.

My Log:

```
342 scp c:\desktop\RecentIPO.csv aliberma@sol30: /users1/st/username
345 git --help
346 git clone CISC-3140-MW2/
347 git clone https://github.com/annielibs/CISC-3140-MW2/blob/main/RecentIPO.csv
348 git clone https://github.com/annielibs/CISC-3140-MW2
349 git clone https://github.com/annielibs/CISC-3140-MW2 Lab5
351 cd Lab5/
353 cat RecentIPO.csv
356 cat Lab5.csv
360 cat RecentIPO.csv
378 awk '{print $1}' RecentIPO.csv
387 cat newFile.csv
```

```
389 cat RecentIPO.csv
390 grep -E ^01/01/2021[1-100] RecentIPO.csv > newFile.csv
392 cat newFile.csv
393 cat RecentIPO.csv
395 cat newFile.csv
396 grep -E ^01/01/2021[1-100] RecentIPO.csv
398 cat RecentIPO.csv
399 grep -c '01/01/2021' RecentIPO.csv
400 grep -c '<01/01/2021>' RecentIPO.csv
402 man grep
403 grep "01" RecentIPO.csv
404 grep "01/01/2021" RecentIPO.csv
405 grep "01/02/2021" RecentIPO.csv
406 grep "01/03/2021" RecentIPO.csv
407 grep "03/01/2021" RecentIPO.csv
408 awk '$NF > "01/01/2021" RecentIPO.csv
409 ls
410 dategrep '>01/01/2021' RecentIPO.csv
411 grep '>01/01/2021' RecentIPO.csv
412 ls
413 grep "03/01/2021" RecentIPO.csv
414 grep > "03/01/2021" RecentIPO.csv
415 grep "> 03/01/2021" RecentIPO.csv
416 cat RecentIPO.csv | perl -ne 'print if (/01/01/2021/ .. /02/01/2021/)'
417 grep RecentIPO.csv | perl -ne 'print if (/01/01/2021/ .. /02/01/2021/)'
418 cat RecentIPO.csv | perl -ne 'print if (/01/01/2021/ .. /02/01/2021/)'
```

```
419 awk -F, '{if($7>01/01/2021)print$7}' RecentIPO.csv
420 grep RecentIPO.csv | perl -ne 'print if (/01/01/2021/ .. /02/01/2021/)'
421 grep "> 03/01/2021" RecentIPO.csv
422 grep '>01/01/2021' RecentIPO.csv
423 grep "03/01/2021" RecentIPO.csv
424 grep "03/" RecentIPO.csv
425 grep "03/" RecentIPO.csv > newFile.csv
426 ls
427 cat newFile.csv
428 cat -n newFile.csv
429 history | tail -n800
```