```
21:37:13 eflubacher@Flashpoint:ulab4 $ mv ~/Downloads/UNIX\ Lab\ #4.pdf .
21:37:19 eflubacher@Flashpoint:ulab4 $ touch ice_cream.txt
21:38:04 eflubacher@Flashpoint:ulab4 $ via ice_cream.txt
21:38:04 eflubacher@Flashpoint:ulab4 $ wc ice_cream.txt
6 15 105 ice_cream.txt
21:39:04 eflubacher@Flashpoint:ulab4 $ sort !$
sort ice_cream.txt
Alumni Swirl
Bittersweet Mint
Black Raspberry
Butter Pecan
Chocolate Chip Cookie Doug
Death by Chocolate
21:39:27 eflubacher@Flashpoint:ulab4 $

[78] 0:bash*

21:47:7 eflubacher@Flashpointible i cg grep -/Geektop/
21:39:35 eflubacher@Flashpointible i cg grep -/Geektop/
21:39:35 eflubacher@Flashpointible i cg grep -/Geektop/
21:47:75 eflubacher@Flashpointible i cg g
```

This third screen shot has output for the third and fourth screen shots in the lab eflubacher 4314688 85274 0.0 0.0 308 s057 Ss Wed02PM 0:00.02 -bash 308 s056 eflubacher 85147 0.0 0.0 4296256 Ss+ Wed02PM 0:00.03 -bash eflubacher 84238 0.0 0.0 4333120 924 s039 Wed01PM 0:00.40 -bash Ss+ eflubacher 84215 0.0 0.0 4315712 308 s000 Wed01PM 0:00.02 -bash eflubacher 59559 0.0 0.0 4333120 308 s051 Ss+ Mon01PM 0:00.08 -bash eflubacher 59465 0.0 0.0 4297280 308 s002 Ss+ Mon01PM 0:00.04 -bash eflubacher 55179 0.0 0.0 4298304 308 s053 Ss+ Mon@1PM 0:00.02 -bash eflubacher 53723 0.0 0.0 4308544 308 s052 Ss+ Mon01PM 0:00.05 -bash eflubacher 53475 0.0 0.0 4308544 308 s048 Ss+ Mon12PM 0:00.02 -bash 4306496 308 s047 eflubacher 52815 0.0 0.0 Ss+ Mon12PM 0:00.02 -bash 4308544 eflubacher 52590 0.0 0.0 308 s046 Ss+ Mon12PM 0:00.02 -bash 4291136 308 s045 eflubacher 45734 0.0 0.0 Ss+ 2Mar18 0:00.02 -bash 308 s043 4298304 eflubacher 42285 0.0 0.0 Ss+ 1Mar18 0:00.02 -bash 4307520 42079 0.0 308 s042 1Mar18 eflubacher 0.0 SS+ 0:00.06 -bash 28Feb18 eflubacher 41948 0.0 0.0 4298304 308 s023 Ss+ 0:00.01 -bash 4305472 eflubacher 40808 0.0 0.0 308 5044 Ss+ 28Feb18 0:00.02 -bash 4307520 308 s041 28Feb18 0:00.01 -bash eflubacher 40293 0.0 0.0 Ss+ 4316736 0:00.01 -bash eflubacher 38888 0.0 0.0 308 s040 28Feb18 Ss+ eflubacher 38780 0.0 0.0 4333120 308 s038 Ss 28Feb18 0:00.11 -bash eflubacher 37062 0.0 0.0 4333120 308 s021 Ss+ 28Feb18 0:00.46 -bash 4307520 8 s037 27Feb18 eflubacher 36177 0.0 0.0 Ss+ 0:00.02 -bash 0.0 4308544 8 s036 27Feb18 0:00.03 -bash eflubacher 36103 0.0 Ss+ 34902 4305472 8 s035 27Feb18 eflubacher 0.0 0.0 Ss+ 0:00.02 -bash 34329 0.0 4298304 8 s034 27Feb18 0:00.02 -bash eflubacher 0.0 Ss+ 31065 4315712 8 s033 26Feb18 0:00.02 -bash eflubacher 0.0 0.0 Ss+ eflubacher 25670 0.0 4333120 8 s032 25Feb18 0:00.06 -bash 0.0 Ss+ 23119 4308544 8 s031 23Feb18 0:00.02 -bash eflubacher 0.0 Ss+ eflubacher 22573 0.0 0.0 4297280 8 5030 Ss+ 23Feb18 0:00.02 -bash eflubacher 17534 0.0 0.0 4300352 8 s027 Ss+ 21Feb18 0:00.02 -bash eflubacher 17492 0.0 0.0 4291136 8 5029 Ss+ 21Feb18 0:00.01 -bash eflubacher 17451 0.0 0.0 4300352 8 s026 Ss+ 21Feb18 0:00.02 -bash 21Feb18 eflubacher 17403 0.0 0.0 4299328 8 s028 Ss+ 0:00.01 -bash eflubacher 12676 0.0 0.0 4300352 8 s011 Ss 19Feb18 0:00.02 -bash 0:00.17 -bash eflubacher 9816 0.0 0.0 4315712 8 s019 Ss+ 18Feb18 eflubacher 6796 0.0 0.0 4316736 8 5025 Ss+ 16Feb18 0:00.02 -bash 4307520 eflubacher 6533 0.0 0.0 8 5024 Ss+ 16Feb18 0:00.03 -bash 8 s022 4316736 eflubacher 6457 0.0 0.0 Ss+ 16Feb18 0:00.03 -bash 4043 4292160 14Feb18 eflubacher 0.0 0.0 8 5020 Ss+ 0:00.02 -bash 8 s010 0:00.01 -bash eflubacher 3903 0.0 0.0 4298304 Ss+ 14Feb18 eflubacher 99593 0.0 0.0 4288064 8 5017 Sst 12Feb18 0:00.01 -bash 4297280 eflubacher 99557 0.0 0.0 8 s018 12Feb18 0:00.02 -bash Ss+ 99334 4298304 8 s016 12Feb18 0:00.02 -bash eflubacher 0.0 0.0 Ss eflubacher 99270 0.0 0.0 4299328 8 5014 12Feb18 0:00.02 -bash Ss 0:00.02 -bash 0:00.03 -bash 98603 0.0 4298304 8 s015 12Feb18 eflubacher 0.0 Ss+ eflubacher 87714 0.0 0.0 4306496 8 s013 9Feb18 Ss+ 4308544 eflubacher 87651 0.0 0.0 8 s012 Ss+ 9Feb18 0:00.02 -bash 0.0 4298304 eflubacher 7588 0.0 8 5009 Ss+ 3Feb18 0:00.01 -bash 7566 4288064 8 5008 0:00.01 -bash eflubacher 0.0 0.0 Ss+ 3Feb18 7541 0.0 4297280 8 s006 0:00.02 -bash eflubacher 0.0 Ss+ 3Feb18 6056 4315712 8 5007 0:00.07 -bash eflubacher 0.0 0.0 Ss+ 2Feb18 3636 0.0 4291136 s003 2Feb18 0:00.02 -bash eflubacher 0.0 8 Ss+ 3383 0.0 0.0 4306496 8 s005 2Feb18 0:00.02 -bash eflubacher Ss+ eflubacher 97688 0.0 0.0 4300352 260 s004 Ss+ 29Jan18 0:00.06 -bash eflubacher 89735 0.0 0.0 4324928 8 s001 Ss+ 26Jan18 0:00.25 -bash eflubacher 98112 0.0 0.0 4267768 888 s068 S+ 9:46PM 0:00.00 grep bash 0:00.03 bash eflubacher 98104 0.0 0.0 4290112 1600 s068 9:45PM 21:46:53 eflubacher@Flashpoint: ulab4 \$ kill -9 98104 Killed: 9 21:47:13 eflubacher@Flashpoint:ulab4 \$ df -h Avail Capacity iused **Filesystem** Size Used ifree %iused Mounted on 64% 1483164 9223372036853292643 290Gi 466Gi /dev/disk1s1 170Gi 08 100% 410Ki 410Ki 0Bi 100% 1418 devfs 0 /dev /dev/disk1s4 5 9223372036854775802 /private/var/vm 466Gi 5.0Gi 170Gi 3% 0% 0 map -hosts 0Bi 0Bi 0Bi 100% 0 100% /net 0Bi 0Bi 0Bi 100% 100% /home map auto home 0 21:47:27 eflubacher@Flashpoint:ulab4 \$ du -h 21:47:29 eflubacher@Flashpoint:ulab4 \$ du -h /bin 2.6M /bin 21:47:51 eflubacher@Flashpoint:ulab4 \$