

Week Report 7

Practice 1

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1/1 v + T M Tilix: mig@cis106: ~
1: mig@cis106: ~ A | x 2: mig@cis106: ~ A | x 3: mig@cis106: ~ A | x
mig@cis106:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mail Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
6: mig@cis106: ~ x
mig@cis106:~$ head -5 /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
mig@cis106:~$ tail -5 /etc/passwd
mig:x:1000:1000:mig:/home/mig:/bin/bash
_flatpak:x:122:124:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
snapd-range-524288-root:x:524288:524288::/nonexistent:/usr/bin/false
snap_daemon:x:584788:584788::/nonexistent:/usr/bin/false
vboxadd:x:997:1::/var/run/vboxadd:/bin/false
mig@cis106:~$ 
5: mig@cis106: ~ x
mig@cis106:~$ tac /etc/passwd
vboxadd:x:997:1::/var/run/vboxadd:/bin/false
snap_daemon:x:584788:584788::/nonexistent:/usr/bin/false
mig:x:1000:1000:mig:/home/mig:/bin/bash
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
gnome-initial-setup:x:119:65534::/run/gnome-initial-setup:/bin/false
4: mig@cis106: ~ x
mig@cis106:~$ cat -nE /etc/passwd
1 root:x:0:0:root:/root:/bin/bash$
2 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
3 bin:x:2:2:bin:/bin:/usr/sbin/nologin$
4 sys:x:3:3:sys:/dev:/usr/sbin/nologin$
5 sync:x:4:65534:sync:/bin:/bin/sync$
6 games:x:5:60:games:/usr/games:/usr/sbin/nologin$
7 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$
8 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$
9 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$
10 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
11 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
15836
15837 Most people start at our website which has the main PG search
15838 facility: www.gutenberg.org.
15839
15840 This website includes information about Project Gutenberg",
15841 including how to make donations to the Project Gutenberg Literary
15842 Archive Foundation, how to help produce our new eBooks, and how to
15843 subscribe to our email newsletter to hear about new eBooks.
15844
mig@cis106:~$ cat -n ~/Documents/Books/dracula.tx
1
mig@cis106:~$ cat -n ~/Documents/Books/dracula.tx
1
```

Practice 2

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1/1 v + T M Tilix: mig@cis106: ~
1: mig@cis106: ~ x 2: mig@cis106: ~ A | x 3: mig@cis106: ~ A | x
saned
geoclue
cups-browsed
hplip
gnome-remote-desktop
polkitd
rtkit
colord
gnome-initial-setup
gdm
nm-openvpn
mig
_flatpak
snapd-range-524288-root
snap_daemon
vboxadd
mig@cis106:~$ 
5: mig@cis106: ~ A | x 4: mig@cis106: ~ A | x
mig@cis106:~$ cut -d":" -f1,6 /etc/passwd
root:/root
daemon:/usr/sbin
bin:/bin
sys:/dev
sync:/bin
games:/usr/games
man:/var/cache/man
lp:/var/spool/lpd
mail:/var/mail
news:/var/spool/news
uucp:/var/spool/uucp
proxy:/bin
www-data:/var/www
backup:/var/backups
list:/var/list
irc:/run/ircd
apt:/nonexistent
mig@cis106:~$ cut -d":" -f1,4 --output-delimiter=" " ~/Documents/Csv/cereal.csv
name;mfr:type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
100% Natural Bran;Q;C;120;3;5;15;2;8;135;0;3;1;1;33.983679
All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912
Almond Delight;R;C;2;2;200;1;14;0; -1;25;3;1;0.75;34.384843
Apple Cinnamon Cheerios;G;C;110;2;2;180;1.5;10.5;10;70;25;1;1;0.75;29.509541
Apple Jacks;K;C;110;2;0;125;1;11;14;30;25;2;1;1;33.174094
Basic 4;G;C;130;3;2;210;2;18;8;100;25;3;1.33;0.75;37.038562
Bran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253
Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813
Cap'n Crunch;Q;C;120;1;2;220;8;12;12;35;25;2;1;0.75;18.042851
Cheerios;G;C;110;6;2;290;2;17;1;105;25;1;1;1.25;50.764999
Cinnamon Toast Crunch;G;C;120;1;3;210;0;13;9;45;25;2;1;0.75;19.823573
mig@cis106:~$ cut -d":" -f1,6,7 --output-delimiter=" " /etc/passwd
root > /root > /bin/bash
daemon > /usr/sbin > /usr/sbin/nologin
bin > /bin > /usr/sbin/nologin
sys > /dev > /usr/sbin/nologin
sync > /bin > /bin/sync
games > /usr/games > /usr/sbin/nologin
man > /var/cache/man > /usr/sbin/nologin
lp > /var/spool/lpd > /usr/sbin/nologin
mail > /var/mail > /usr/sbin/nologin
news > /var/spool/news > /usr/sbin/nologin
uucp > /var/spool/uucp > /usr/sbin/nologin
proxy > /bin > /usr/sbin/nologin
www-data > /var/www > /usr/sbin/nologin
backup > /var/backups > /usr/sbin/nologin
list > /var/list > /usr/sbin/nologin
irc > /run/ircd > /usr/sbin/nologin
apt > /nonexistent > /usr/sbin/nologin
nobody > /nonexistent > /usr/sbin/nologin
systemd-network > / > /usr/sbin/nologin
systemd-timesync > / > /usr/sbin/nologin
dhcpcd > /usr/lib/dhcpcd > /bin/false
messagebus > /nonexistent > /usr/sbin/nologin
syslog > /nonexistent > /usr/sbin/nologin
systemd-resolve > / > /usr/sbin/nologin
uuuid > /run/uuuid > /usr/sbin/nologin
usbmux > /var/lib/usbmux > /usr/sbin/nologin
tss > /var/lib/tpm > /bin/false
systemd-oom > / > /usr/sbin/nologin
kernoops > / > /usr/sbin/nologin
whoopsie > /nonexistent > /bin/false
dnsmasq > /var/lib/misc > /usr/sbin/nologin
avahi > /run/avahi-daemon > /usr/sbin/nologin
tcpdump > /nonexistent > /usr/sbin/nologin
sssd > /var/lib/sss > /usr/sbin/nologin
speech-dispatcher > /run/speech-dispatcher > /bin/false
```

Practice 3

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1/1 v + [ ] [ ]
Tilix: mig@cis106: ~
1: mig@cis106: ~
2: mig@cis106: ~/Documents/Csv

mig@cis106:~$ sort ~/Documents/Csv/cars.csv
AMC Ambassador Brougham;13.0;8;360.0;175.0;3821.;11.0;73;US
AMC Ambassador DPL;15.0;8;390.0;190.0;3850.;8.5;70;US
AMC Ambassador SST;17.0;8;304.0;150.0;3672.;11.5;72;US
AMC Concord;19.4;6;232.0;90.00;3210.;17.2;78;US
AMC Concord;24.3;4;151.0;90.00;3003.;20.1;80;US
AMC Concord d/l;18.1;6;258.0;120.0;3410.;15.1;78;US
AMC Concord DL;23.0;4;151.0;90.00;3035.;20.5;82;US
AMC Concord DL;6;20.2;6;232.0;90.00;3265.;18.2;79;US
AMC Gremlin;18.0;6;232.0;100.0;2789.;15.0;73;US
AMC Gremlin;19.0;6;232.0;100.0;2634.;13.0;71;US
AMC Gremlin;20.0;6;232.0;100.0;2914.;16.0;75;US
AMC Gremlin;21.0;6;199.0;90.00;2648.;15.0;70;US
AMC Hornet;18.0;6;199.0;97.00;2774.;15.5;70;US
AMC Hornet;18.0;6;232.0;100.0;2945.;16.0;73;US
AMC Hornet;19.0;6;232.0;100.0;2901.;16.0;74;US
AMC Hornet;22.5;6;232.0;90.00;3085.;17.6;76;US
AMC Hornet Sportabout (sw);18.0;6;258.0;110.0;2962.;13.5;71;US
AMC Matador;14.0;8;304.0;150.0;3672.;11.5;73;US
AMC Matador;15.0;6;258.0;110.0;3730.;19.0;75;US
AMC Matador;15.5;8;304.0;120.0;3962.;13.9;76;US
AMC Matador;16.0;6;258.0;110.0;3632.;18.0;74;US
AMC Matador;18.0;6;232.0;100.0;3288.;15.5;71;US
AMC Matador (sw);14.0;8;304.0;150.0;4257.;15.5;74;US
AMC Matador (sw);15.0;8;304.0;150.0;3892.;12.5;72;US
AMC Pacer;19.0;6;232.0;90.00;3211.;17.0;75;US
AMC Pacer d/l;17.5;6;258.0;95.00;3193.;17.8;76;US
AMC Rebel SST;16.0;8;304.0;150.0;3433.;12.0;70;US
AMC Rebel SST (sw);0;8;360.0;175.0;3850.;11.0;70;US
AMC Spirit DL;27.4;4;121.0;80.00;2670.;15.0;79;US
Audi 100LS;20.0;4;114.0;91.00;2582.;14.0;73;Europe
Audi 100LS;23.0;4;115.0;95.00;2694.;15.0;75;Europe
Audi 100 LS;24.0;4;107.0;90.00;2430.;14.5;70;Europe
Audi 4000;34.3;4;97.00;78.00;2188.;15.8;80;Europe
Audi 5000;20.3;5;131.0;103.0;2830.;15.9;78;Europe
Audi 5000s (diesel);36.4;5;121.0;67.00;2950.;19.9;80;Europe
Audi Fox;29.0;4;98.00;83.00;2219.;16.5;74;Europe
...

mig@cis106:~$ cd ~/Documents/Csv/ && sort -o sorted_cars.csv cars.csv
mig@cis106:~/Documents/Csv$ wc -l sorted_cars.csv
408 sorted_cars.csv
mig@cis106:~/Documents/Csv$ wc -m sorted_cars.csv
22663 sorted_cars.csv
mig@cis106:~/Documents/Csv$ cat sorted_cars.csv | tr ';' ','
AMC Ambassador Brougham,13.0,8,360.0,175.0,3821.,11.0,73,US
AMC Ambassador DPL,15.0,8,390.0,190.0,3850.,8.5,70,US
AMC Ambassador SST,17.0,8,304.0,150.0,3672.,11.5,72,US
AMC Concord,19.4,6,232.0,90.00,3210.,17.2,78,US
AMC Concord,24.3,4,151.0,90.00,3003.,20.1,80,US
AMC Concord d/l,18.1,6,258.0,120.0,3410.,15.1,78,US
AMC Concord DL,23.0,4,151.0,90.00,3035.,20.5,82,US
AMC Concord DL,6,20.2,6,232.0,90.00,3265.,18.2,79,US
AMC Gremlin,18.0,6,232.0,100.0,2789.,15.0,73,US
AMC Gremlin,19.0,6,232.0,100.0,2634.,13.0,71,US
AMC Gremlin,20.0,6,232.0,100.0,2914.,16.0,75,US
AMC Gremlin,21.0,6,199.0,90.00,2648.,15.0,70,US
AMC Hornet,18.0,6,199.0,97.00,2774.,15.5,70,US
AMC Hornet,18.0,6,232.0,100.0,2945.,16.0,73,US
AMC Hornet,19.0,6,232.0,100.0,2901.,16.0,74,US
AMC Hornet,22.5,6,232.0,90.00,3085.,17.6,76,US
AMC Hornet Sportabout (sw),18.0,6,258.0,110.0,2962.,13.5,71,US
AMC Matador,14.0,8,304.0,150.0,3672.,11.5,73,US
AMC Matador,15.0,6,258.0,110.0,3730.,19.0,75,US
AMC Matador,15.5,8,304.0,120.0,3962.,13.9,76,US
AMC Matador,16.0,6,258.0,110.0,3632.,18.0,74,US
AMC Matador,18.0,6,232.0,100.0,3288.,15.5,71,US
AMC Matador (sw),14.0,8,304.0,150.0,4257.,15.5,74,US
AMC Matador (sw),15.0,8,304.0,150.0,3892.,12.5,72,US
AMC Pacer,19.0,6,232.0,90.00,3211.,17.0,75,US
AMC Pacer d/l,17.5,6,258.0,95.00,3193.,17.8,76,US
AMC Rebel SST,16.0,8,304.0,150.0,3433.,12.0,70,US
AMC Rebel SST (sw),0,8,360.0,175.0,3850.,11.0,70,US
AMC Spirit DL,27.4,4,121.0,80.00,2670.,15.0,79,US
Audi 100LS,20.0,4,114.0,91.00,2582.,14.0,73,Europe
Audi 100LS,23.0,4,115.0,95.00,2694.,15.0,75,Europe
...

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Practice 4

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1/1 v + [ ] [ ]
Tilix: mig@cis106: ~/Documents/Books
1: mig@cis106: ~/Documents/Books
2: mig@cis106: ~/Documents/Books

mig@cis106:~$ cd ~/Documents/Books/
mig@cis106:~/Documents/Books$ grep -in "love" pride-and-prejudice.txt
71:by allowance" and "loving with personal love." This distinction applies
75:to their best work than in the case of those others who are loved" by
77:proper thing to love them. And in the sect--fairly large and yet
125:All the minor passages--the loves of Jane and Bingley, the advent of Mr.
138:aversion to actual love. I do not know whether the all-grasping hand of
368:his falling in love at all is not extremely probable. Here again I
380:injured in disposition, and thoroughly in love. As for his being in
381:love, Elizabeth has given as just an exposition of the causes of that
433:anybody who can read between lines will not find the lovers'
442:ladies with whom it might be a pleasure to fall in love; there are at
446:Grant. I should have been most in love with Beatrix and Argemone; I
547:"So much love and eloquence"
728:_may_ fall in love with one of them, and therefore you must visit him as
893:persuade you at last. I was sure you loved your girls too well to
905:for your sakes we would do anything. Lydia, my love, though you _are_
944:dancing was a certain step towards falling in love; and very lively
1387:way to be very much in love; but she considered with pleasure that it
1402:very few of us who have heart enough to be really in love without
1422:in love as much as she chooses."
1629:imagination is very rapid; it jumps from admiration to love, from love
1736:Jane, make haste and tell us; make haste, my love."
2306:brother Gardiner's in town so much in love with her, that my
2313:discovered the efficacy of poetry in driving away love!"
2315:"I have been used to consider poetry as the _food_ of love," said Darcy.
2317:"Of a fine, stout, healthy love it may. Everything nourishes what is
2793:be a great loss to _me_ to have many such acquaintance. I dearly love a
2958:to-day. Lydia, my love, ring the bell. I must speak to Hill this
3297:His plan did not vary on seeing them. Miss Bennet's lovely face
4677:the effects of your loveliness and amiable qualifications. As I must,
4679:shall choose to attribute it to your wish of increasing my love by
4717:successful love; for Mrs. Bennet, having dawdled about in the vestibule
5046:in love with you and wants him to marry Miss Darcy. She follows him to
5054:is not such a simpleton. Could she have seen half as much love in Mr.
5065:of being in love with you, he is very much in love with her friend."
5157:she dared to hope that so much love and eloquence awaited her there.
...

mig@cis106:~/Documents/Books$ grep -ic "love" pride-and-prejudice.txt
131
mig@cis106:~/Documents/Books$ grep -ivc "love" pride-and-prejudice.txt
14402
mig@cis106:~/Documents/Books$ grep -io "love" pride-and-prejudice.txt | wc -l
wc: invalid option -- 'l'
Try 'wc --help' for more information.
mig@cis106:~/Documents/Books$ grep -io "love" pride-and-prejudice.txt | wc -l
135
mig@cis106:~/Documents/Books$ grep -i "^dracula" dracula.txt
DRACULA
Dracula, jumping to his feet, said:--
Dracula, as it may help me to understand. To-night he may talk of
Dracula was speaking, there was that in his eyes and in his bearing
Dracula." I suspected him, and determined to test his sincerity.
Dracula we should go by Galatz, or at any rate through Bucharest, so I
mig@cis106:~/Documents/Books$ grep -Ec "bash|zsh|fish" /etc/passwd
Command 'grep' not found, did you mean:
  command 'gfred' from deb gfarm-client (2.7.20+dfsg-1build1)
  command 'grep' from deb grep (3.11-3)
  command 'fgrep' from deb grep (3.11-3)
  command 'rrep' from deb rrep (1.3.7-1)
  command 'rep' from deb rep (0.92.5-3.1)
  command 'prep' from deb loki (2.4.7.4-10)
  command 'mrep' from deb mblaze (1.1-1)
  command 'free' from deb procps (2:4.0.4-4ubuntu3.2)
Try: sudo apt install <deb name>
mig@cis106:~/Documents/Books$ grep -Ec "bash|zsh|fish" /etc/passwd
2
mig@cis106:~/Documents/Books$ grep -Ec "bash|zsh|fish" /etc/passwd
51
mig@cis106:~/Documents/Books$

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