... name: Diaa Salman course: cis106 semester: fall22 ...

Lab 7

Question 1

uidd:x:107:115::/run/uuidd:/usr/sbin/nologin

ss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/falseapt:x:105:65534::/nonexistent:/usr/sbin/nologin

```
Dload
                                                                                                                  Upload
                                                                                                                                            Total
                                                                                                                                                                   Spent
                                                                                                                                                                                             Left Speed
 100 7398 100 7398
                                                                                                 8420
                                                                                                                              0 --:--:--
                                                                     0
   ljsalman@cis106vm:~$ 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:Mailing List Manager:/var/list:/usr/sbin/nologin
 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
 systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
  <u>systemd-timesync:x:103</u>:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
 syslog:x:104:111::/home/syslog:/usr/sbin/nologin
 |jsalman@cts106vm:~$ tac /etc/passwd
|shd:x:129:65534::/run/sshd:/usr/sbin/nologin
|flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
|boxadd:x:999:1::/var/run/vboxadd:/bin/false
flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
/boxadd:x:999:1::/var/run/vboxadd:/bin/false
ijsalman:x:1000:1000:Dtaa,,,:/home/djsalman:/bin/bash

ydm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
iplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
pnome-initial-setup:x:125:65534::/run/gnome-initial-setup:/bin/false
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
peoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
aned:x:121:128::/var/lib/saned:/usr/sbin/nologin
peoch-dispatcher:x:119:29:Speech Dispatcher,,::/run/speech-dispatcher:/bin/false
ssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
hoopsie:x:117:124::/nonexistent:/bin/false
tkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
ups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
vahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
sernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
insmasq:x:112:65534:dnsmasq,,:/var/lib/misc:/usr/sbin/nologin
susmux:x:111:46:usbmux daemon,,,:/var/lib/misc:/usr/sbin/nologin
rcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
uudd:x:107:115::/run/uuidd:/usr/sbin/nologin
scs:x:1106:110::TPM software stack :/var/lib/mm:/hin/false
```

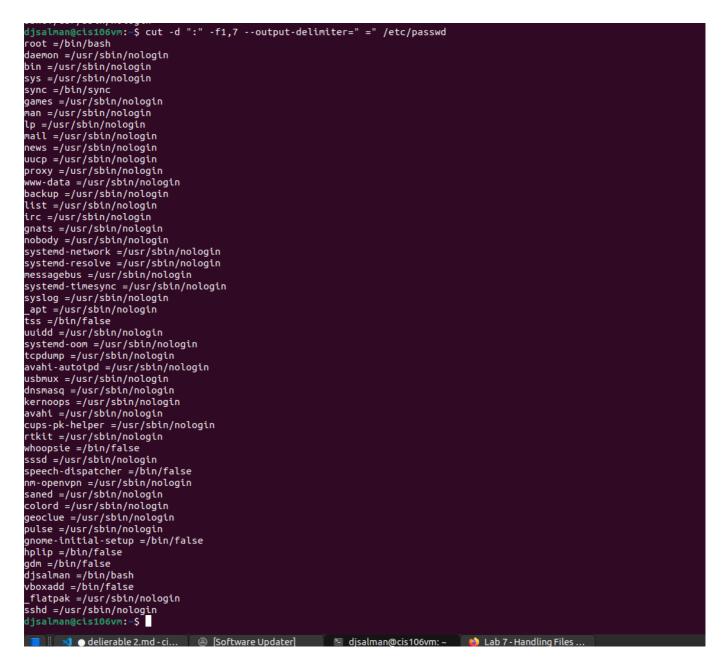
1 / 17

```
|jsalman@cis106vm:~$ cat -En /etc/passwd
     1 root:x:0:0:root:/root:/bin/bash$
     2 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
       bin:x:2:2:bin:/bin:/usr/sbin/nologin$
     3
       sys:x:3:3:sys:/dev:/usr/sbin/nologin$
     5 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$
     9
        news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$
    10
        uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$
    11
    12
        proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
    13
       www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
        backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
    14
    15
        list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
        irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$
    16
        gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nolo
    17
        nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
    18
        systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbir
    19
        systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin$
    20
    21
       messagebus:x:102:105::/nonexistent:/usr/sbin/nologin$
        systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/s
    22
         syslog·x·104·111··/home/syslog·/usr/shin/nologin$
|jsalman@cis106vm:~$ head -5 /etc/passwd
oot: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
djsalman@cis106vm:~$ tail -5 /etc/passwd
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
djsalman:x:1000:1000:Diaa,,,:/home/djsalman:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin_
sshd:x:129:65534::/ru<u>n</u>/sshd:/usr/sbin/nologin
jsalman@cis106vm:~$
```

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thistattatton hetper,,,:/hone
sshd:x:129:65534::/run/sshd:/usr/sbin/nologin
djsalman@cis106vm:~$ cut -d ':' -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lρ
mail
news
uucp
ргоху
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
apt
tss
uuidd
systemd-oom
tcpdump
avahi-autoipd
usbmux
dnsmasq
kernoops
avahi
cups-pk-helper
rtkit
whoopsie
sssd
speech-dispatcher
nm-openvpn
saned
colord
geoclue
pulse
gnome-initial-setup
hplip
gdm
disalman
vboxadd
flatpak
sshd
djsalman@cis106vm:~$
```

```
sshd
djsalman@cis106vm:~$ cut -d ':' -f1,7 /etc/passwd
root:/bin/bash
```

```
uaenon:/usr/sbtn/notogtn
bin:/usr/sbin/nologin
sys:/usr/sbin/nologin
sync:/bin/sync
games:/usr/sbin/nologin
man:/usr/sbin/nologin
lp:/usr/sbin/nologin
mail:/usr/sbin/nologin
news:/usr/sbin/nologin
uucp:/usr/sbin/nologin
proxy:/usr/sbin/nologin
www-data:/usr/sbin/nologin
backup:/usr/sbin/nologin
list:/usr/sbin/nologin
irc:/usr/sbin/nologin
gnats:/usr/sbin/nologin
nobody:/usr/sbin/nologin
systemd-network:/usr/sbin/nologin
systemd-resolve:/usr/sbin/nologin
messagebus:/usr/sbin/nologin
systemd-timesync:/usr/sbin/nologin
syslog:/usr/sbin/nologin
_apt:/usr/sbin/nologin
tss:/bin/false
uuidd:/usr/sbin/nologin
systemd-oom:/usr/sbin/nologin
tcpdump:/usr/sbin/nologin
avahi-autoipd:/usr/sbin/nologin
usbmux:/usr/sbin/nologin
dnsmasq:/usr/sbin/nologin
kernoops:/usr/sbin/nologin
avahi:/usr/sbin/nologin
cups-pk-helper:/usr/sbin/nologin
rtkit:/usr/sbin/nologin
whoopsie:/bin/false
sssd:/usr/sbin/nologin
speech-dispatcher:/bin/false
nm-openvpn:/usr/sbin/nologin
saned:/usr/sbin/nologin
colord:/usr/sbin/nologin
geoclue:/usr/sbin/nologin
pulse:/usr/sbin/nologin
gnome-initial-setup:/bin/false
hplip:/bin/false
gdm:/bin/false
djsalman:/bin/bash
vboxadd:/bin/false
flatpak:/usr/sbin/nologin
sshd:/usr/sbin/nologin
djsalman@cis106vm:~$
```



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### Association of the process of the district of the process of t
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jsalman@cis106vm:~/Documents/Csv$ cat cereal.csv | tr ';' ',
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,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,120,3,5,15,2,8,8,135,0,3,1,1,33.983679
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,110,2,2,200,1,14,8,-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,120,1,2,220,0,12,12,35,25,2,1,0.75,18.042851
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
Clusters,G,C,110,3,2,140,2,13,7,105,25,3,1,0.5,40.400208
Cocoa Puffs,G,C,110,1,1,180,0,12,13,55,25,2,1,1,22.736446
Corn Chex,R,C,110,2,0,280,0,22,3,25,25,1,1,1,41.445019
Corn Flakes,K,C,100,2,0,290,1,21,2,35,25,1,1,1,45.863324
Corn Pops,K,C,110,1,0,90,1,13,12,20,25,2,1,1,35.782791
Count Chocula,G,C,110,1,1,180,0,12,13,65,25,2,1,1,22.396513
Cracklin' Oat Bran,K,C,110,3,3,140,4,10,7,160,25,3,1,0.5,40.448772
Cream of Wheat (Quick),N,H,100,3,0,80,1,21,0,-1,0,2,1,1,64.533816
Crispix,K,C,110,2,0,220,1,21,3,30,25,3,1,1,46.895644
Crispy Wheat & Raisins,G,C,100,2,1,140,2,11,10,120,25,3,1,0.75,36.176196
Double Chex,R,C,100,2,0,190,1,18,5,80,25,3,1,0.75,44.330856
Froot Loops,K,C,110,2,1,125,1,11,13,30,25,2,1,1,32.207582
Frosted Flakes,K,C,110,1,0,200,1,14,11,25,25,1,1,0.75,31.435973
Frosted Mini-Wheats,K,C,100,3,0,0,3,14,7,100,25,2,1,0.8,58.345141
Fruit & Fibre Dates, Walnuts, and Oats,P,C,120,3,2,160,5,12,10,200,25,3,1.25,0.67,40.917047
Fruitful Bran,K,C,120,3,0,240,5,14,12,190,25,3,1.33,0.67,41.015492
Fruity Pebbles,P,C,110,1,1,135,0,13,12,25,25,2,1,0.75,28.025765
Golden Crisp,P,C,100,2,0,45,0,11,15,40,25,1,1,0.88,35.252444
Golden Grahams,G,C,110,1,1,280,0,15,9,45,25,2,1,0.75,23.804043
Grape Nuts Flakes,P,C,100,3,1,140,3,15,5,85,25,3,1,0.88,52.076897
Grape-Nuts,P,C,110,3,0,170,3,17,3,90,25,3,1,0.25,53.371007
Great Grains Pecan,P,C,120,3,3,75,3,13,4,100,25,3,1,0.33,45.811716
Honey Graham Ohs,Q,C,120,1,2,220,1,12,11,45,25,2,1,1,21.871292
Honey Nut Cheerios,G,C,110,3,1,250,1.5,11.5,10,90,25,1,1,0.75,31.072217
Honey-comb,P,C,110,1,0,180,0,14,11,35,25,1,1,1.33,28.742414
Just Right Crunchy Nuggets,K,C,110,2,1,170,1,17,6,60,100,3,1,1,36.523683
Just Right Fruit & Nut,K,C,140,3,1,170,2,20,9,95,100,3,1.3,0.75,36.471512
Kix,G,C,110,2,1,260,0,21,3,40,25,2,1,1.5,39.241114
Lifé,Q,C,100,4,2,150,2,12,6,95,25,2,1,0.67,45.328074
Lucky Charms,G,C,110,2,1,180,0,12,12,55,25,2,1,1,26.734515
Maypo,A,H,100,4,1,0,0,16,3,95,25,2,1,1,54.850917
Muesli Raisins, Dates, & Almonds,R,C,150,4,3,95,3,16,11,170,25,3,1,1,37.136863
Muesli Raisins, Peaches, & Pecans,R,C,150,4,3,150,3,16,11,170,25,3,1,1,34.139765
Mueslix Crispy Blend,K,C,160,3,2,150,3,17,13,160,25,3,1.5,0.67,30.313351
Multi-Grain Cheerios,G,C,100,2,1,220,2,15,6,90,25,1,1,1,40.105965
Nut&Honey Crunch,K,C,120,2,1,190,0,15,9,40,25,2,1,0.67,29.924285
Nutri-Grain Almond-Raisin,K,C,140,3,2,220,3,21,7,130,25,3,1.33,0.67,40.692320
Nutri-grain Wheat K C 90 3 0 170 3 18 2 90 25 3 1 1 59.642837
                                           ooks$ grep -i 'love' pride-and-prejudice.txt
personal love." This distinction applies
y allowance" and "loving with personal
to their best work than in the case of those others who are
                          e them. And in the sect--fairly large and yet
 roper thing to 1
                              --the <mark>love</mark>s of Jane and Bingley, the advent of Mr.
e. I do not know whether the all-grasping hand of
All the minor passages--the
version to actual
is falling in love at all is not extremely probable. Here again I in its falling in love at all is not extremely probable. Here again I injured in disposition, and thoroughly in love. As for his being in love, Elizabeth has given as just an exposition of the causes of that inybody who can read between lines will not find the lovers'
adies with whom it might be a pleasure to fall in Grant. I should have been most in love with Beatrix
                                                                           : there are at
                                                  re with Beatrix and Argemone; I
                 and eloquence"
'So much
may_fall in love with one of them, and therefore you must visit him as persuade you at last. I was sure you loved your girls too well to for your sakes we would do anything. Lydia, my love, though you _are_lancing was a certain step towards falling in love; and very lively
                                   e; but she considered with pleasure that it
way to be very much in
very few of us who have heart enough to be really in
          as much as she chooses.
magination is very rapid; it jumps from admiration to <mark>love</mark>, from <mark>love.</mark>
Jane, make haste and tell us; make haste, my <mark>love."</mark>
Prother Gardiner's in town so much in <mark>love</mark> with her, that my
iscovered the efficacy of poetry in driving away
I have been used to consider poetry as the food
```

Of a fine, stout, healthy love it may. Everything nourishes what is be a great loss to _me_ to have many such acquaintance. I dearly love a to-day. Lydia, my love, ring the bell. I must speak to Hill this his plan did not vary on seeing them. Miss Bennet's lovely face effects of your loveliness and amiable qualifications. As I must, shall choose to attribute it to your wish of increasing my love by successful love; for Mrs. Bennet, having dawdled about in the vestibule in love with you and wants him to marry Miss Darcy. She follows him to so not such a simpleton. Could she have seen half as much love in Mr. of being in love with you, he is very much in love with her friend." she dared to hope that so much love and eloquence awaited her there. he dared to hope that so much l e and eloquence awaited her there. "So much love and eloquence" 🐪 Lah 7 - Handling Files djsalman@cis106vm:~/Documents/Books\$ grep -E 'love|hate' pride-and-prejudice.txt by allowance" and "loving with personal love." This distinction applies to their best work than in the case of those others who are loved "by proper thing to love them. And in the sect--fairly large and yet All the minor passages--the loves of Jane and Bingley, the advent of Mr. aversion to actual love. I do not know whether the all-grasping hand of his falling in love at all is not extremely probable. Here again I injured in disposition, and thoroughly in love. As for his being in ve, Elizabeth has given as just an exposition of the causes of that anybody who can read between lines will not find the lovers' ladies with whom it might be a pleasure to fall in love; there are at Grant. I should have been most in love with Beatrix and Argemone; I 'So much love and eloquence" _may_ fall in <mark>love</mark> with one of them, and therefore you must visit him as persuade you at last. I was sure you loved your girls too well to for your sakes we would do anything. Lydia, my love, though you _are_ dancing was a certain step towards falling in love; and very lively "Come, Darcy," said he, "I must have you dance. I hate to see you way to be very much in love; but she considered with pleasure that it very few of us who have heart enough to be really in love without in love as much as she chooses." imagination is very rapid; it jumps from admiration to love, from love Jane, make haste and tell us; make haste, my love."
"To walk three miles, or four miles, or five miles, or whatever it is,
to employ for captivation. Whatever bears affinity to cunning is "Whatever I do is done in a hurry," replied he; "and therefore if I brother Gardiner's in town so much in <mark>love</mark> with her, that my discovered the efficacy of poetry in driving away love!"
"I have been used to consider poetry as the _food_ of love," said Darcy. "Of a fine, stout, healthy love it may. Everything nourishes what is thankful; and then you may say w<mark>hate</mark>ver you like of me." be a great loss to _me_ to have many such acquaintance. I dearly love a "And _your_ defect is a propensity to hate everybody." to-day. Lydia, my love, ring the bell. I must speak to Hill this him to write to you at all, and very hypocritical. I hate such false His plan did not vary on seeing them. Miss Bennet's lovely face different sort of men, and that he hates me." everybody. Whatever he said, was said well; and whatever he did, done throw into the account of accident or mistake whatever could not be scruple whatever on that head, and was very far from dreading a rebuke, a man agreeable whom one is determined to hate! Do not wish me such an He smiled, and assured her that whatever she wished him to say should be effects of your loveliness and amiable qualifications. As I must, shall choose to attribute it to your wish of increasing my <mark>love</mark> by 'I do assure you, sir, that I have no pretensions whatever to that kind successful love; for Mrs. Bennet, having dawdled about in the vestibule in love with you and wants him to marry Miss Darcy. She follows him to is not such a simpleton. Could she have seen half as much love in Mr.

of being in love with you, be is yesy much in love with her friend."

lab 7-Handling Files ...

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was exactly what Darcy had hoped to see. They were able to love each
as well as Elizabeth, really
                                  oved them; and they were both ever
djsalman@cis106vm:~/Documents/Books$ grep -iw '^love' dracula.txt
     her. One, two, three, all open their veins for her, besides one old
     and pride, seen you grow up. Now I want you to make your home here
     me, and he loves me, and I love you with all the moods and tenses
     her. Oh, Madam Mina, by that love, I implore you, help me. It is
     and from the good, good wishes of those other strong men.
     Mina, I know. Oh, do something to save her. It cannot have gone too
djsalman@cis106vm:~/Documents/Books$
    📱 🔁 disalman@cis106vm:... 🐞 Lab 7 - Handling Files ... 🐞 GitHub — Mozilla Fir...
    Mina, I know. Oh, do something to save her. It cannot have gone too
jsalman@cis106vm:~/Documents/Books$ grep -E '^[A-Z]|^[0-9]' dracula.txt
his eBook is for the use of anyone anywhere in the United States and
Title: Dracula
luthor: Bram Stoker
lelease Date: October, 1995 [eBook #345]
.anguage: English
haracter set encoding: UTF-8
roduced by: Chuck Greif and the Online Distributed Proofreading Team
HAPTER I. Jonathan Harker's Journal
HAPTER II. Jonathan Harker's Journal
HAPTER III. Jonathan Harker's Journal
HAPTER IV. Jonathan Harker's Journal
HAPTER V. Letters—Lucy and Mina
HAPTER VI. Mina Murray's Journal
CHAPTER VII. Cutting from "The Dailygraph," 8 August
CHAPTER VIII. Mina Murray's Journal
CHAPTER IX. Mina Murray's Journal
HAPTER X. Mina Murray's Journal
HAPTER XI. Lucy Westenra's Diary
HAPTER XII. Dr. Seward's Diary
HAPTER XIII. Dr. Seward's Diary
HAPTER XIV. Mina Harker's Journal
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lost people start at our website which has the main PG search
This website includes information about Project Gutenberg-tm,
Archive Foundation, how to help produce our new eBooks, and how to disalman@cis106vm:~/Documents/Books$ awk -F ';' '{print $1, $NF}' Documents/Csv/cars.csv
awk: cannot open Documents/Csv/cars.csv (No such file or directory)
djsalman@cis106vm:~/Documents/Books$ cd
djsalman@cis106vm:~$ awk -F ';' '{print $1, $NF}' Documents/Csv/cars.csv
Car Origin
STRING CAT
Chevrolet Chevelle Malibu US
Buick Skylark 320 US
Plymouth Satellite US
AMC Rebel SST US
Ford Torino US
Ford Galaxie 500 US
Chevrolet Impala US
Plymouth Fury iii US
Pontiac Catalina US
AMC Ambassador DPL US
Citroen DS-21 Pallas Europe
Chevrolet Chevelle Concours (sw) US
Ford Torino (sw) US
Plymouth Satellite (sw) US
AMC Rebel SST (sw) US
Dodge Challenger SE US
Plymouth 'Cuda 340 US
Ford Mustang Boss 302 US
```

```
Isalman@cts100vn:./Decuments/cev$ awk -F ';' '{OFS=" nade in "} {print $1, $NF}' cars.csv
car made in Origin
STRING made in CAT
Chevrolet Chevelle Malibu made in US
Butck Skylark 320 made in US
Plymouth Satellite made in US
AMC Rebel SST made in US
Ford Galaxie 500 made in US
Ford Galaxie 500 made in US
Ford Galaxie 500 made in US
Plymouth Fury iti made in US
Plymouth Fury iti made in US
AMC Rebel SST Pallas made in US
AMC Rebel SST Pallas made in US
AMC Rebel SST Pallas made in US
AMC Anhassador DPL made in US
Plymouth Satellite (sw) made in US
Plymouth Cuda 340 made in US
Plymouth Cuda 340 made in US
Plymouth Satellite (sw) made in US
Plymouth Satellite (sw) made in US
Plymouth User made in US
Plymouth Duster made in US
Part Made In Japan
Plymouth Duster made in US
Part Made In Japan
Plymouth Duster made in US
Part Made In Europe
AMC Grenlin made in US
Ford Fase made in Europe
AMC Grenlin made in US
Chevroll made in US
Datsum PLS10 made in US
Dade 2200 made in US
Dade 2200 made in US
Dade 2200 made in US
Chevy C20 made in US
Chevy C20 made in US
Chevy C20 made in US
Chevical made in Span
Ford Pinto made in US
Colorian made in US
Colo
```

```
Jsalman@cts106vm:-/Documents/Csv$ awk -F ';' '{print " The ",$1, " has ",$3, " cylinders and is made in ",$NF}' cars.csv
The Car has Cylinders cylinders and is made in Ortgin
The STRING has INT cylinders and is made in CAT
The Chevrolet Chevelle Malibu has 8 cylinders and is made in US
The Buick Skylark 320 has 8 cylinders and is made in US
The Plymouth Satellite has 8 cylinders and is made in US
The Plymouth Satellite has 8 cylinders and is made in US
The AMC Rebel SST has 8 cylinders and is made in US
The Ford Torino has 8 cylinders and is made in US
The Ford Galaxie 500 has 8 cylinders and is made in US
The Chevrolet Impala has 8 cylinders and is made in US
The Plymouth Fury iti has 8 cylinders and is made in US
The Pontiac Catalina has 8 cylinders and is made in US
The AMC Ambassador DPL has 8 cylinders and is made in US
The Chevrolet Chevelle Concours (sw) has 8 cylinders and is made in US
The Ford Torino (sw) has 8 cylinders and is made in US
The Pontiac Catalina has 8 cylinders and is made in US
The Pontiac Chevelle Concours (sw) has 8 cylinders and is made in US
The Pontiac Chevelle Concours (sw) has 8 cylinders and is made in US
The Pond Torino (sw) has 8 cylinders and is made in US
The Plymouth Stellite (sw) has 8 cylinders and is made in US
The Plymouth Cruda 340 has 8 cylinders and is made in US
The Plymouth 'Cuda 340 has 8 cylinders and is made in US
The Ford Mustang Boss 302 has 8 cylinders and is made in US
The Ford Mustang Boss 302 has 8 cylinders and is made in US
The Buick Estate Wagon (sw) has 8 cylinders and is made in US
The Buick Estate Wagon (sw) has 8 cylinders and is made in US
The Toyota Corolla Mark ii has 4 cylinders and is made in US
```

```
djsalman@cis106vm:~/Documents/Csv$ awk 'NR > 2 { print }' cars.csv
Chevrolet Chevelle Malibu;18.0;8;307.0;130.0;3504.;12.0;70;US
Buick Skylark 320;15.0;8;350.0;165.0;3693.;11.5;70;US
Plymouth Satellite;18.0;8;318.0;150.0;3436.;11.0;70;US
AMC Rebel SST;16.0;8;304.0;150.0;3433.;12.0;70;US
Ford Torino;17.0;8;302.0;140.0;3449.;10.5;70;US
Ford Galaxie 500;15.0;8;429.0;198.0;4341.;10.0;70;US
Chevrolet Impala;14.0;8;454.0;220.0;4354.;9.0;70;US
Plymouth Fury iii;14.0;8;440.0;215.0;4312.;8.5;70;US
Pontiac Catalina;14.0;8;455.0;225.0;4425.;10.0;70;US
AMC Ambassador DPL;15.0;8;390.0;190.0;3850.;8.5;70;US
Citroen DS-21 Pallas;0;4;133.0;115.0;3090.;17.5;70;Europe
Chevrolet Chevelle Concours (sw);0;8;350.0;165.0;4142.;11.5;70;US
Ford Torino (sw);0;8;351.0;153.0;4034.;11.0;70;US
Plymouth Satellite (sw);0;8;383.0;175.0;4166.;10.5;70;US
AMC Rebel SST (sw);0;8;360.0;175.0;3850.;11.0;70;US
Dodge Challenger SE;15.0;8;383.0;170.0;3563.;10.0;70;US
Plymouth 'Cuda 340;14.0;8;340.0;160.0;3609.;8.0;70;US
Ford Mustang Boss 302;0;8;302.0;140.0;3353.;8.0;70;US
Chevrolet Monte Carlo;15.0;8;400.0;150.0;3761.;9.5;70;US
Buick Estate Wagon (sw);14.0;8;455.0;225.0;3086.;10.0;70;US
Toyota Corolla Mark ii;24.0;4;113.0;95.00;2372.;15.0;70;Japan
Plymouth Duster;22.0;6;198.0;95.00;2833.;15.5;70;US
AMC Hornet;18.0;6;199.0;97.00;2774.;15.5;70;US
Ford Maverick;21.0;6;200.0;85.00;2587.;16.0;70;US
Datsun PL510;27.0;4;97.00;88.00;2130.;14.5;70;Japan
Volkswagen 1131 Deluxe Sedan;26.0;4;97.00;46.00;1835.;20.5;70;Europe
```

```
Dodge Rampage;32.0;4;135.0;84.00;2295.;11.6;82;US
Ford Ranger; 28.0; 4; 120.0; 79.00; 2625.; 18.6; 82; US
Chevy S-10;31.0;4;119.0;82.00;2720.;19.4;82;US
djsalman@cis106vm:~/Documents/Csv$ awk -F ';' '{print toupper9$1)}' cars.csv
awk: line 1: extra ')'
djsalman@cis106vm:~/Documents/Csv$ awk -F ';' '{print toupper($1)}' cars.csv
CAR
STRING
CHEVROLET CHEVELLE MALIBU
BUICK SKYLARK 320
PLYMOUTH SATELLITE
AMC REBEL SST
FORD TORINO
FORD GALAXIE 500
CHEVROLET IMPALA
PLYMOUTH FURY III
PONTIAC CATALINA
AMC AMBASSADOR DPL
CITROEN DS-21 PALLAS
CHEVROLET CHEVELLE CONCOURS (SW)
FORD TORINO (SW)
PLYMOUTH SATELLITE (SW)
AMC REBEL SST (SW)
DODGE CHALLENGER SE
```

```
>ks$ sed 's/Dracula/Alucard/g' dracula.txt | grep Alucard
The Project Gutenberg eBook of Alucard, by Bram Stoker
Title:
                     , as there are no maps of this country as yet to compare
Castle
                    Count Alucard, is a fairly well-known place. I shall enter had directed me to go to the Golden Krone Hotel, which I
town named by Count /
was all he knew. When I asked him if he knew Count Alucard,
"Count Alucard?" He bowed in a courtly way as he replied:--
                                                                                     ard, and could
                    ; and I bid you welcome, Mr. Harker, to my house. Come in;
 I am
          , jumping to his feet, said:--
Alucard, as it may help me to understand. To-night he may talk of
the Turk on his own ground? This was a Alucard indeed! Woe was it
                                                                       indeed! Woe was it that
Turk and brought the shame of slavery on them! Was it not this
Hungarian yoke, we of the 🛭
                                              ard blood were amongst their leaders, for
                                     d as their heart's blood, their brains, and
Szekelys--and the
Alucard was speaking, there was that in his eyes and in his bearing Alucard." I suspected him, and determined to test his sincerity. to my own room. The last I saw of Count Alucard was his kissing his hand had just been received. It is only a line dated from Castle Alucard,
terrible events at Whitby when Count 🗛
                                                               ard landed, so I shall look
had found in his absence: that the house which 🗚
                                                                                  had bought was
                                                . He become so small--we ourselves saw
sisters in the castle of
fractions in the castle of Atoleia. He become so small
has been. He must, indeed, have been that Voivode A
grave, and are even now arrayed against us. The Ato
'nokol'--Satan and hell: and in one manuscript this
                                                                                        who won his
                                                                                    s were, says
```

```
djsalman@cis106vm:~/Documents/Books$ sed G /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
necessarily keep eBooks in compliance with any particular paper
edition.
Most people start at our website which has the main PG search
facility: www.gutenberg.org
This website includes information about Project Gutenberg-tm,
including how to make donations to the Project Gutenberg Literary
Archive Foundation, how to help produce our new eBooks, and how to
subscribe to our email newsletter to hear about new eBooks.
djsalman@cis106vm:~/Documents/Books$
   📔 djsalman@cis106vm:... 🐞 Lab 7 - Handling Files ... 🐞 GitHub — Mozilla Fir... 🔻 🐧 🌘 lab7.md - cis106 - V.
```

```
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djsalman@cis106vm:~/Documents/Books$ cd
djsalman@cis106vm:~$ grep -c "/bin/bash" /etc/passwd
2
djsalman@cis106vm:~$ grep -c "/sbin/nologin" /etc/passwd
40
djsalman@cis106vm:~$ cd Documents/Csv/
djsalman@cis106vm:~/Documents/Csv$ grep -i 'ford' cars.csv | wc -l
53
djsalman@cis106vm:~/Documents/Csv$ cd
djsalman@cis106vm:~/Documents/Books$
djsalman@cis106vm:~/Documents/Books$ cat bible.txt | grep -Eo '\b[a-z0-9]{4}\b' | wc -l
158138
djsalman@cis106vm:~/Documents/Books$
```

Challenge questions

Question 1

```
Documents/ Downloads/
djsalman@cis106vm:~$ awk -F ';' 'NR > 3 {print $1}' Documents/Csv/cereal.csv
100% Natural Bran
All-Bran
All-Bran with Extra Fiber
Almond Delight
Apple Cinnamon Cheerios
Apple Jacks
Basic 4
Bran Chex
Bran Flakes
Cap'n'Crunch
Cheerios
Cinnamon Toast Crunch
Clusters
Cocoa Puffs
Corn Chex
Corn Flakes
Corn Pops
Count Chocula
Cracklin' Oat Bran
Cream of Wheat (Quick)
Crispix
```

Question 2

```
salman@cis106vm:~/Documents/Csv$ awk -F ';' 'NR > 3 {print $1}' cereal.csv |sort
100% Natural Bran
All-Bran
All-Bran with Extra Fiber
Almond Delight
Apple Cinnamon Cheerios
Apple Jacks
Basic 4
Bran Chex
Bran Flakes
Cap'n'Crunch
Cheerios
Cinnamon Toast Crunch
Clusters
Cocoa Puffs
Corn Chex
Corn Flakes
Corn Pops
Count Chocula
Cracklin' Oat Bran
Cream of Wheat (Quick)
Crispix
```

```
Triples
Trix
Wheat Chex
Wheaties
Wheaties Honey Gold
djsalman@cis106vm:~/Documents/Csv$ awk -F ';' 'NR > 3 {print $1,$4}' cereal.csv |sort
100% Natural Bran 120
All-Bran 70
All-Bran with Extra Fiber 50
Almond Delight 110
Apple Cinnamon Cheerios 110
Apple Jacks 110
Basic 4 130
Bran Chex 90
Bran Flakes 90
Cap'n'Crunch 120
```