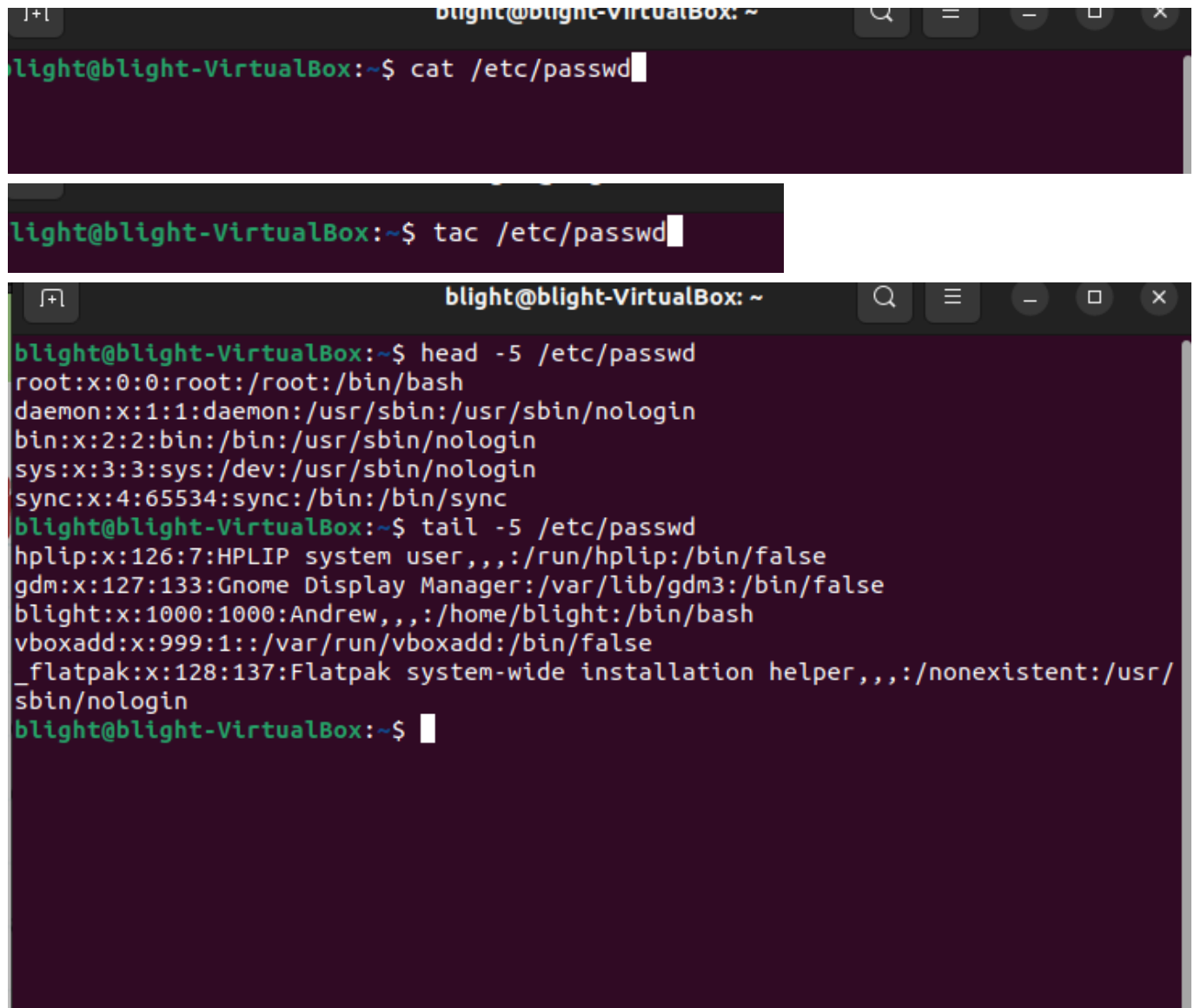


Question 1:



The image displays three sequential terminal window screenshots from a virtual machine named 'blight-VirtualBox'. The first screenshot shows the command `cat /etc/passwd` being entered. The second screenshot shows the command `tac /etc/passwd` being entered. The third screenshot shows the commands `head -5 /etc/passwd` and `tail -5 /etc/passwd` being executed, displaying the first and last five lines of the password file respectively.

```
blight@blight-VirtualBox: ~  
blight@blight-VirtualBox:~$ cat /etc/passwd  
  
blight@blight-VirtualBox:~$ tac /etc/passwd  
  
blight@blight-VirtualBox:~$ 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  
blight@blight-VirtualBox:~$ tail -5 /etc/passwd  
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false  
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false  
blight:x:1000:1000:Andrew,,,:/home/blight:/bin/bash  
vboxadd:x:999:1::/var/run/vboxadd:/bin/false  
_flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/  
sbin/nologin  
blight@blight-VirtualBox:~$
```

Question 2:

```
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
blight
vboxadd
_flatpak
blight@blight-VirtualBox:~$ cut -d ':' -f1 /etc/passwd
```

```
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
blight:/bin/bash
vboxadd:/bin/false
_flatpak:/usr/sbin/nologin
blight@blight-VirtualBox:~$ cut -d ':' -f1,7 /etc/passwd
```

```

blight@blight-VirtualBox: ~
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
blight
vboxadd
_flatpak
blight@blight-VirtualBox:~$ cut -d ':' -f1 /etc/passwd | tr ':' '='

```

```

blight@blight-VirtualBox: ~
dnsmasq:x:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
avahi:x:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:124::/nonexistent:/bin/false
sssd:x:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
nm-openvpn:x:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:128::/var/lib/saned:/usr/sbin/nologin
colord:x:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:130::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:65534::/run/gnome-initial-setup:/bin/false
hplip:x:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
blight:x:1000:Andrew,,,:/home/blight:/bin/bash
vboxadd:x:1::/var/run/vboxadd:/bin/false
_flatpak:x:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
blight@blight-VirtualBox:~$ cut -d ':' -f1,2,4-7 /etc/passwd

```

Question 3:

```
blight@blight-VirtualBox: ~  
blight@blight-VirtualBox: ~  
blight@blight-VirtualBox:~$ wc -l Documents/Books/dracula.txt  
15860 Documents/Books/dracula.txt  
blight@blight-VirtualBox:~$ wc -l Documents/Books/pride-and-prejudice.txt  
14904 Documents/Books/pride-and-prejudice.txt  
blight@blight-VirtualBox:~$
```

```
blight@blight-VirtualBox: ~  
blight@blight-VirtualBox: ~  
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin  
saned:x:121:128:./var/lib/saned:/usr/sbin/nologin  
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false  
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
syslog:x:104:111:./home/syslog:/usr/sbin/nologin  
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin  
systemd-oom:x:108:116:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin  
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin  
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
tcpdump:x:109:117:./nonexistent:/usr/sbin/nologin  
tss:x:106:112:TPM software stack,,,:/var/lib/tpm:/bin/false  
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
uudd:x:107:115:./run/uudd:/usr/sbin/nologin  
vboxadd:x:999:1:./var/run/vboxadd:/bin/false  
whoopsie:x:117:124:./nonexistent:/bin/false  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
blight@blight-VirtualBox:~$ sort /etc/passwd
```

Question 4:

```

blight@blight-VirtualBox: ~/Documents/Csv
blight@blight-VirtualBox: ~/Documents/Csv
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
Muesli 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
Oatmeal Raisin Crisp,G,C,130,3,2,170,1,5,13,5,10,120,25,3,1,25,0.5,30.450843
Post Nat. Raisin Bran,P,C,120,3,1,200,6,11,14,260,25,3,1,33,0.67,37.840594
Product 19,K,C,100,3,0,320,1,20,3,45,100,3,1,1,41.503540
Puffed Rice,Q,C,50,1,0,0,0,13,0,15,0,3,0.5,1,60.756112
Puffed Wheat,Q,C,50,2,0,0,1,10,0,50,0,3,0.5,1,63.005645
Quaker Oat Squares,Q,C,100,4,1,135,2,14,6,110,25,3,1,0.5,49.511874
Quaker Oatmeal,Q,H,100,5,2,0,2,7,-1,-1,110,0,1,1,0.67,50.828392
Raisin Bran,K,C,120,3,1,210,5,14,12,240,25,2,1,33,0.75,39.259197
Raisin Nut Bran,G,C,100,3,2,140,2,5,10,5,8,140,25,3,1,0.5,39.703400
Raisin Squares,K,C,90,2,0,0,2,15,6,110,25,3,1,0.5,55.333142
Rice Chex,R,C,110,1,0,240,0,23,2,30,25,1,1,1,13,41.998933
Rice Krispies,K,C,110,2,0,290,0,22,3,35,25,1,1,1,40.560159
Shredded Wheat,N,C,80,2,0,0,3,16,0,95,0,1,0.83,1,68.235885
Shredded Wheat 'n' Bran,N,C,90,3,0,0,4,19,0,140,0,1,1,0.67,74.472949
Shredded Wheat spoon size,N,C,90,3,0,0,3,20,0,120,0,1,1,0.67,72.801787
Smacks,K,C,110,2,1,70,1,9,15,40,25,2,1,0.75,31.230054
Special K,K,C,110,6,0,230,1,16,3,55,25,1,1,1,53.131324
Strawberry Fruit Wheats,N,C,90,2,0,15,3,15,5,90,25,2,1,1,59.363993
Total Corn Flakes,G,C,110,2,1,200,0,21,3,35,100,3,1,1,38.839746
Total Raisin Bran,G,C,140,3,1,190,4,15,14,230,100,3,1,5,1,28.592785
Total Whole Grain,G,C,100,3,1,200,3,16,3,110,100,3,1,1,46.658844
Triples,G,C,110,2,1,250,0,21,3,60,25,3,1,0.75,39.106174
Trix,G,C,110,1,1,140,0,13,12,25,25,2,1,1,27.753301
Wheat Chex,R,C,100,3,1,230,3,17,3,115,25,1,1,0.67,49.787445
Wheaties,G,C,100,3,1,200,3,17,3,110,25,1,1,1,51.592193
Wheaties Honey Gold,G,C,110,2,1,200,1,16,8,60,25,1,1,0.75,36.187559
blight@blight-VirtualBox:~/Documents/Csv$ cat cereal.csv | tr ';' ','

```

```

blight@blight-VirtualBox: ~/Documents/Books
blight@blight-VirtualBox: ~/Documents/Books
the house, "as ever I saw. He simpers, and smirks, and makes love to us
lover. When first he came in, he had spoken to her but little, but every
"I think you are in very great danger of making him as much in love with
expect a renewal of his love? Is there one among the sex who would not
"That is a question which I hardly know how to answer. We all love to
"Come here, my love, I want to speak to you," took her out of the room.
everything that was charming, except the professed lover of her
and in spite of his being a lover, Elizabeth really believed all his
really loved me, and nothing but a persuasion of my being indifferent
warmly as a man violently in love can be supposed to do. Had Elizabeth
still have been but for you, dearest, loveliest Elizabeth! What do I not
that my sister loved him, or merely from my information last spring?"
acknowledged lovers talked and laughed; the unacknowledged were silent.
am in earnest. I speak nothing but the truth. He still loves me, and we
did not always love him so well as I do now; but in such cases as these
really love him quite well enough? Oh, Lizzy! do anything rather than
"Why, I must confess that I love him better than I do Bingley. I am
how long you have loved him?"
always had a value for him. Were it for nothing but his love of you, I
"I do, I do like him," she replied, with tears in her eyes; "I love him.
paid him; but these violent young lovers carry everything their own
his love for you, and there will be an end of the matter."
lover to any of them. She began at length to recover, to fidget about in
But, my dearest love, tell me what dish Mr. Darcy is particularly fond
Darcy to account for his having ever fallen in love with her. "How could
of that when they fall in love."
for she loves to be of use. But tell me, what did you come down to
might ever hope to make you love me. My avowed one, or what I avowed to
only smiles, I laugh. Mr. Darcy sends you all the love in the world that
being loved by her sister.
"I wish you joy. If you love Mr. Darcy half so well as I do my dear
was exactly what Darcy had hoped to see. They were able to love each
as well as Elizabeth, really loved them; and they were both ever
blight@blight-VirtualBox:~/Documents/Books$ grep -i "love" pride-and-prejudice.txt

```



```

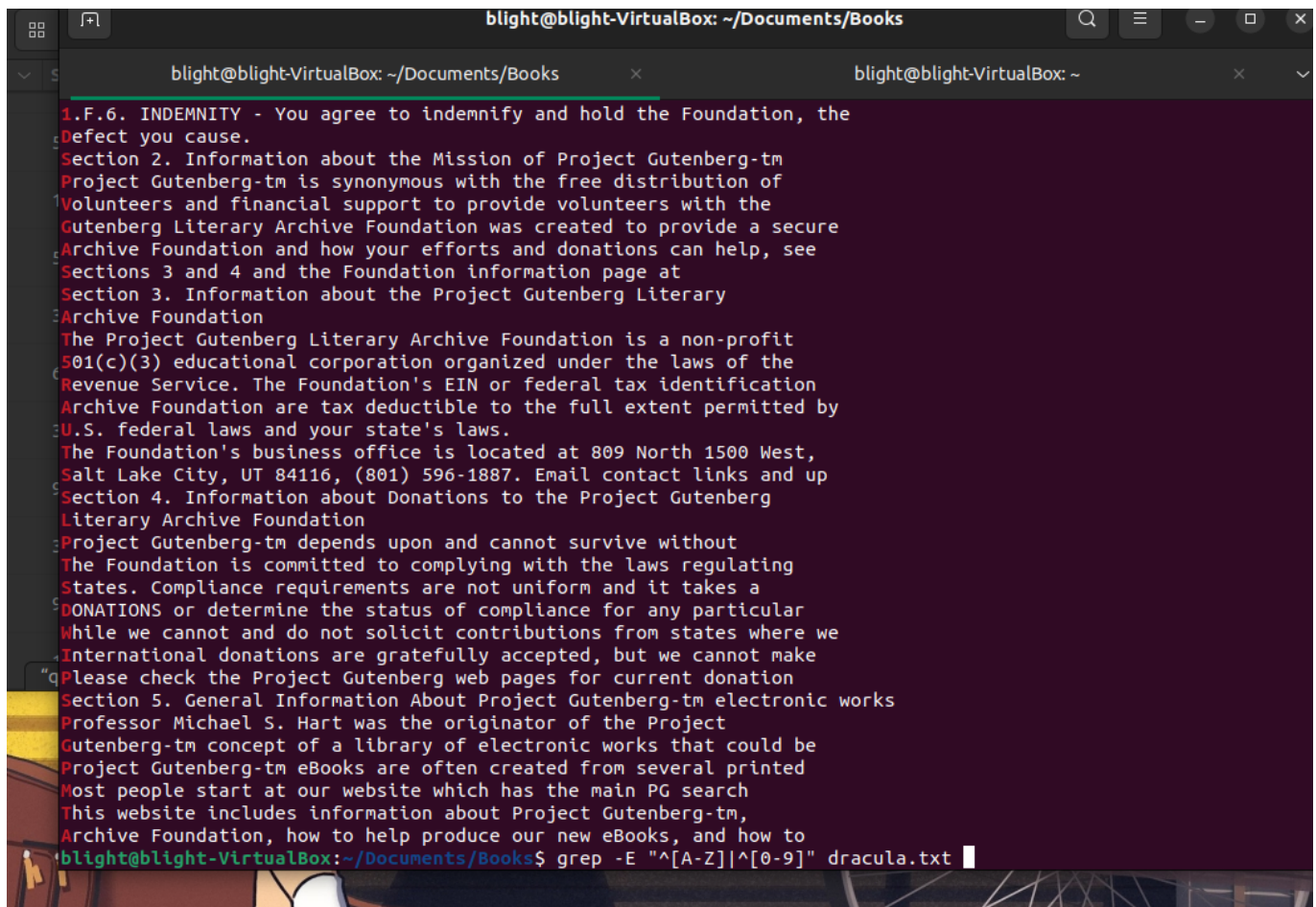
blight@blight-VirtualBox: ~/Documents/Books
blight@blight-VirtualBox: ~/Documents/Books
10033:certainly did not hate him. No; hatred had vanished long ago, and she
10052:gratitude--for to love, ardent love, it must be attributed; and, as
10458:him, as now, when all love must be vain.
10637:"But can you think that Lydia is so lost to everything but love of him,
10648:Since the ----shire were first quartered in Meryton, nothing but love,
10896:being in love with each other many weeks."
10934: world I love, and he is an angel. I should never be happy without
10945: up. Good-bye. Give my love to Colonel Forster. I hope you will
11573:husband's love of independence had alone prevented their exceeding their
11902:their elopement had been brought on by the strength of her love rather
12051: to make it impossible for any young woman of character to love or
12365:the house, "as ever I saw. He simpers, and smirks, and makes love to us
12497:say that I hate the very sight of him."
12701:"I think you are in very great danger of making him as much in love with
12770:expect a renewal of his love? Is there one among the sex who would not
12850:"That is a question which I hardly know how to answer. We all love to
12919:"Come here, my love, I want to speak to you," took her out of the room.
13739:warmly as a man violently in love can be supposed to do. Had Elizabeth
13809:make you hate me."
13858:"Hate you! I was angry, perhaps, at first, but my anger soon began to
13993:did not always love him so well as I do now; but in such cases as these
14011:really love him quite well enough? Oh, Lizzy! do anything rather than
14020:"Why, I must confess that I love him better than I do Bingley. I am
14037:always had a value for him. Were it for nothing but his love of you, I
14127:"I do, I do like him," she replied, with tears in her eyes; "I love him.
14166:his love for you, and there will be an end of the matter."
14207:But, my dearest love, tell me what dish Mr. Darcy is particularly fond
14245:Darcy to account for his having ever fallen in love with her. "How could
14272:of that when they fall in love."
14318:might ever hope to make you love me. My avowed one, or what I avowed to
14352:only smiles, I laugh. Mr. Darcy sends you all the love in the world that
14477: "I wish you joy. If you love Mr. Darcy half so well as I do my dear
14518:was exactly what Darcy had hoped to see. They were able to love each
blight@blight-VirtualBox:~/Documents/Books$ grep -Ewni 'love|hate' pride-and-prejudice.txt

```

```

blight@blight-VirtualBox: ~/Documents/Books
blight@blight-VirtualBox: ~/Documents/Books
song of birds, his music and his love, lie far behind. You others are
itself; it does not even need a woman's love to hear its music.
sleep when those she loves are in danger! I shall lie down and pretend
more. He was a man loved and honoured by all who knew him; and in his
By all you hold sacred--by all you hold dear--by your love that is
love and from the good, good wishes of those other strong men.
love Mina, I know. Oh, do something to save her. It cannot have gone too
born--I was countermining them. And you, their best beloved one, are now
harm to any that I love, I shall die!"
"I would; if there were no friend who loved me, who would save me such a
Mina, my dear, my dear, may we who love you be there to see, when that
head of her whom, each in his own way, we loved; and we prayed for help
the holiest love was the recruiting sergeant for their ghastly ranks.
girls that you all love are mine already; and through them you and
so full of love and tenderness, "Jonathan dear, and you all my true,
one is my poor wronged darling. I love her a thousand times more for her
for the safety of one we love--for the good of mankind, and for the
friends who love me. But death is not all. I cannot believe that to die
my beloved husband--that, should the time come, you will kill me."
those that they loved implored them to slay them. It is men's duty
towards those whom they love, in such times of sore trial! And oh, my
the hand of him that loves me best. Dr. Van Helsing, I have not
forgotten your mercy in poor Lucy's case to him who loved"--she stopped
how I love and honour you, when a word for your good, spoken more
of us was to do; and now Lord Godalming and Jonathan have a lovely steam
than 70 miles before us. The country is lovely, and most interesting; if
my beloved husband; that whatever may happen, Jonathan may know that I
loved him and honoured him more than I can say, and that my latest and
off we go. It is a lovely country; full of beauties of all imaginable
woman open and look love, and the voluptuous mouth present to a
a high great tomb as if made to one much beloved that other fair sister
some of my sex to love and to protect one of hers, made my head whirl
loved her, that they did dare much for her sake."
blight@blight-VirtualBox:~/Documents/Books$ grep 'love' dracula.txt

```



```
blight@blight-VirtualBox: ~/Documents/Books
blight@blight-VirtualBox: ~/Documents/Books
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blight@blight-VirtualBox:~/Documents/Books$ grep -E "[A-Z]|[0-9]" dracula.txt
```

Question 5:

```

blight@blight-VirtualBox: ~/Documents/Books
blight@blight-VirtualBox: ~/Documents/Books
Ford Grenada gl US
Chrysler Lebaron Salon US
Chevrolet Cavalier US
Chevrolet Cavalier Wagon US
Chevrolet Cavalier 2-door US
Pontiac J2000 SE Hatchback US
Dodge Aries SE US
Pontiac Phoenix US
Ford Fairmont Futura US
AMC Concord DL US
Volkswagen Rabbit l Europe
Mazda GLC Custom l Japan
Mazda GLC Custom Japan
Plymouth Horizon Miser US
Mercury Lynx l US
Nissan Stanza XE Japan
Honda Accord Japan
Toyota Corolla Japan
Honda Civic Japan
Honda Civic (auto) Japan
Datsun 310 GX Japan
Buick Century Limited US
Oldsmobile Cutlass Ciera (diesel) US
Chrysler Lebaron Medallion US
Ford Grenada l US
Toyota Celica GT Japan
Dodge Charger 2.2 US
Chevrolet Camaro US
Ford Mustang GL US
Volkswagen Pickup Europe
Dodge Rampage US
Ford Ranger US
Chevy S-10 US
blight@blight-VirtualBox:~/Documents/Books$ awk -F ';' '{print $1,$NF}' ../Csv/cars.csv
The Honda Prelude has 4 cylinders and is made in Japan
The Toyota Corolla has 4 cylinders and is made in Japan
The Datsun 200SX has 4 cylinders and is made in Japan
The Mazda 626 has 4 cylinders and is made in Japan
The Peugeot 505s Turbo Diesel has 4 cylinders and is made in Europe
The Saab 900s has 4 cylinders and is made in Europe
The Volvo Diesel has 6 cylinders and is made in Europe
The Toyota Cressida has 6 cylinders and is made in Japan
The Datsun 810 Maxima has 6 cylinders and is made in Japan
The Buick Century has 6 cylinders and is made in US
The Oldsmobile Cutlass LS has 8 cylinders and is made in US
The Ford Grenada gl has 6 cylinders and is made in US
The Chrysler Lebaron Salon has 6 cylinders and is made in US
The Chevrolet Cavalier has 4 cylinders and is made in US
The Chevrolet Cavalier Wagon has 4 cylinders and is made in US
The Chevrolet Cavalier 2-door has 4 cylinders and is made in US
The Pontiac J2000 SE Hatchback has 4 cylinders and is made in US
The Dodge Aries SE has 4 cylinders and is made in US
The Pontiac Phoenix has 4 cylinders and is made in US
The Ford Fairmont Futura has 4 cylinders and is made in US
The AMC Concord DL has 4 cylinders and is made in US
The Volkswagen Rabbit l has 4 cylinders and is made in Europe
The Mazda GLC Custom l has 4 cylinders and is made in Japan
The Mazda GLC Custom has 4 cylinders and is made in Japan
The Plymouth Horizon Miser has 4 cylinders and is made in US
The Mercury Lynx l has 4 cylinders and is made in US
The Nissan Stanza XE has 4 cylinders and is made in Japan
The Honda Accord has 4 cylinders and is made in Japan
The Toyota Corolla has 4 cylinders and is made in Japan
The Honda Civic has 4 cylinders and is made in Japan
The Honda Civic (auto) has 4 cylinders and is made in Japan
The Datsun 310 GX has 4 cylinders and is made in Japan
The Buick Century Limited has 6 cylinders and is made in US
The Oldsmobile Cutlass Ciera (diesel) has 6 cylinders and is made in US
The Chrysler Lebaron Medallion has 4 cylinders and is made in US
The Ford Grenada l has 6 cylinders and is made in US
The Toyota Celica GT has 4 cylinders and is made in Japan
The Dodge Charger 2.2 has 4 cylinders and is made in US
The Chevrolet Camaro has 4 cylinders and is made in US
The Ford Mustang GL has 4 cylinders and is made in US
The Volkswagen Pickup has 4 cylinders and is made in Europe
The Dodge Rampage has 4 cylinders and is made in US
The Ford Ranger has 4 cylinders and is made in US
blight@blight-VirtualBox:~/Documents/Csv$ awk -F ';' '{print "The ", $1," has ",$3,"cylinders" , "and is made in ", $NF}' cars.csv

```



```

blight@blight-VirtualBox: ~/Documents/csv
The Renault 18L has 4 cylinders and is made in Europe
The Honda Prelude has 4 cylinders and is made in Japan
The Toyota Corolla has 4 cylinders and is made in Japan
The Datsun 280SX has 4 cylinders and is made in Japan
The Mazda 626 has 4 cylinders and is made in Japan
The Peugeot 505s Turbo Diesel has 4 cylinders and is made in Europe
The Saab 900s has 4 cylinders and is made in Europe
The Volvo Diesel has 6 cylinders and is made in Europe
The Toyota Cressida has 6 cylinders and is made in Japan
The Datsun 810 Maxima has 6 cylinders and is made in Japan
The Buick Century has 6 cylinders and is made in US
The Oldsmobile Cutlass LS has 8 cylinders and is made in US
The Ford Grenada GL has 6 cylinders and is made in US
The Chrysler Lebaron Salon has 6 cylinders and is made in US
The Chevrolet Cavalier has 4 cylinders and is made in US
The Chevrolet Cavalier Wagon has 4 cylinders and is made in US
The Chevrolet Cavalier 2-door has 4 cylinders and is made in US
The Pontiac 2000 SE Hatchback has 4 cylinders and is made in US
The Dodge Aries SE has 4 cylinders and is made in US
The Pontiac Phoenix has 4 cylinders and is made in US
The Ford Fairmont Futura has 4 cylinders and is made in US
The AMC Concord DL has 4 cylinders and is made in US
The Volkswagen Rabbit L has 4 cylinders and is made in Japan
The Mazda GLC Custom L has 4 cylinders and is made in Japan
The Mazda GLC Custom has 4 cylinders and is made in Japan
The Plymouth Horizon Miser has 4 cylinders and is made in US
The Mercury Lynx L has 4 cylinders and is made in US
The Nissan Stanza XE has 4 cylinders and is made in Japan
The Honda Accord has 4 cylinders and is made in Japan
The Toyota Corolla has 4 cylinders and is made in Japan
The Honda Civic has 4 cylinders and is made in Japan
The Honda Civic (auto) has 4 cylinders and is made in Japan
The Datsun 310 GL has 4 cylinders and is made in Japan
The Buick Century Limited has 6 cylinders and is made in US
The Oldsmobile Cutlass Ciera (diesel) has 6 cylinders and is made in US
The Chrysler Lebaron Medallion has 4 cylinders and is made in US
The Ford Grenada L has 6 cylinders and is made in US
The Toyota Celta GL has 4 cylinders and is made in Japan
The Dodge Charger 2.2 has 4 cylinders and is made in US
The Chevrolet Camaro has 4 cylinders and is made in US
The Ford Mustang GL has 4 cylinders and is made in US
The Volkswagen Pickup has 4 cylinders and is made in Europe
The Dodge Rampage has 4 cylinders and is made in US
The Ford Ranger has 4 cylinders and is made in US
The Chevy S-10 has 4 cylinders and is made in US
blight@blight-VirtualBox: ~/Documents/csv$ awk -F ' ' 'NR > 3 {print "The ", $1, " has ", $3, "cylinders", " and is made in ", $NF}' cars.csv

```

```

blight@blight-VirtualBox: ~/Documents/csv
RENAULT 18L;34.5;4;100.0;0;2320.15.8;81;EUROPE
HONDA PRELUDE;33.7;4;107.0;75.00;2210.14.4;81;JAPAN
TOYOTA COROLLA;32.4;4;108.0;75.00;2350.16.0;81;JAPAN
DATSUN 280SX;32.9;4;119.0;100.0;2615.14.8;81;JAPAN
MAZDA 626;31.6;4;120.0;74.00;2635.18.3;81;JAPAN
PEUGEOT 505S TURBO DIESEL;28.1;4;141.0;80.00;3230.20.4;81;EUROPE
SAAB 900S;40;4;121.0;110.0;2800.15.4;81;EUROPE
VOLVO DIESEL;20.7;4;145.0;76.00;3160.19.0;81;EUROPE
TOYOTA CRESSIDA;25.4;6;168.0;116.0;2980.12.0;81;JAPAN
DATSUN 810 MAXIMA;24.2;6;146.0;120.0;2930.13.8;81;JAPAN
BUICK CENTURY;22.4;6;231.0;110.0;3415.15.8;81;US
OLDSMOBILE CUTLASS LS;26.6;8;350.0;105.0;3725.19.0;81;US
FORD GRENADA GL;20.2;6;280.0;88.00;3600.17.1;81;US
CHRYSLER LEBARON SALON;17.4;6;225.0;85.00;3465.16.6;81;US
CHEVROLET CAVALIER;28.0;4;112.0;88.00;2605.19.6;82;US
CHEVROLET CAVALIER WAGON;27.0;4;112.0;88.00;2640.18.6;82;US
CHEVROLET CAVALIER 2-DOOR;34.0;4;112.0;88.00;2395.18.0;82;US
PONTIAC 2000 SE HATCHBACK;31.0;4;112.0;85.00;2575.16.2;82;US
DODGE ARIES SE;29.0;4;135.0;84.00;2525.16.0;82;US
PONTIAC PHOENIX;27.0;4;151.0;90.00;2735.18.0;82;US
FORD FAIRMONT FUTURA;24.0;4;140.0;92.00;2865.16.4;82;US
AMC CONCORD DL;23.0;4;151.0;90;3035.20.5;82;US
VOLKSWAGEN RABBIT L;36.0;4;105.0;74.00;1980.15.3;82;EUROPE
MAZDA GLC CUSTOM L;37.0;4;91.00;68.00;2025.18.2;82;JAPAN
MAZDA GLC CUSTOM;31.0;4;91.00;68.00;1970.17.6;82;JAPAN
PLYMOUTH HORIZON MISER;38.0;4;105.0;63.00;2125.14.7;82;US
MERCURY LYNX L;36.0;4;98.00;70.00;2125.17.3;82;US
NISSAN STANZA XE;36.0;4;120.0;88.00;2160.14.5;82;JAPAN
HONDA ACCORD;36.0;4;107.0;75.00;2205.14.5;82;JAPAN
TOYOTA COROLLA;34.0;4;108.0;70.00;2245.16.9;82;JAPAN
HONDA CIVIC;38.0;4;91.00;67.00;1965.15.0;82;JAPAN
HONDA CIVIC (AUTO);32.0;4;91.00;67.00;1965.15.7;82;JAPAN
DATSUN 310 GL;38.0;4;91.00;67.00;1995.16.2;82;JAPAN
BUICK CENTURY LIMITED;25.0;6;181.0;110.0;2945.16.4;82;US
OLDSMOBILE CUTLASS CIERA (DIESEL);38.0;6;262.0;85.00;3015.17.0;82;US
CHRYSLER LEBARON MEDALLION;26.0;4;150.0;92.00;2585.14.5;82;US
FORD GRENADA L;22.0;6;232.0;112.0;2835.14.7;82;US
TOYOTA CELTA GL;32.0;4;144.0;96.00;2605.13.9;82;JAPAN
DODGE CHARGER 2.2;36.0;4;135.0;84.00;2370.13.0;82;US
CHEVROLET CAMARO;27.0;4;151.0;90.00;2950.17.3;82;US
FORD MUSTANG GL;27.0;4;140.0;86.00;2790.15.6;82;US
VOLKSWAGEN PICKUP;44.0;4;97.00;52.00;2130.24.0;82;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
blight@blight-VirtualBox: ~/Documents/csv$ awk -F ' ' '{print toupper($1)}' cars.csv

```

```

blight@blight-VirtualBox: ~/Documents/Books
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blight@blight-VirtualBox: ~/Documents/Books$ sed 's/Dracula/Alucard/g' dracula.txt

```

```

blight@blight-VirtualBox: ~/Documents/Books

tcpdump:x:109:117::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin
whoopsie:x:117:124::/nonexistent:/bin/false
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
nm-openvpn:x:120:126:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
saned:x:121:128::/var/lib/saned:/usr/sbin/nologin
colord:x:122:129:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:123:130::/var/lib/geoclue:/usr/sbin/nologin
pulse:x:124:131:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:125:65534:/run/gnome-initial-setup:/bin/false
hplip:x:126:7:HPLIP system user,,,:/run/hplip:/bin/false
gdm:x:127:133:Gnome Display Manager:/var/lib/gdm3:/bin/false
blight:x:1000:1000:Andrew,,,:/home/blight:/bin/bash
vboxadd:x:999:1::/var/run/vboxadd:/bin/false
_flatpak:x:128:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
blight@blight-VirtualBox:~/Documents/Books$ sed -e '/etc/passwd

blight@blight-VirtualBox:~/Documents/Books$ sed -e '/etc/passwd

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subscribe to our email newsletter to hear about new eBooks.

blight@blight-VirtualBox:~/Documents/Books$ sed -e '/^$/d;G' pride-and-prejudice.txt

```

Question 6:

```

blight@blight-VirtualBox: ~
blight@blight-VirtualBox:~$ grep "/bin/bash" /etc/passwd | wc -l
2
blight@blight-VirtualBox:~$ 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
blight@blight-VirtualBox:~$ grep "/bin/bash" /etc/passwd | wc -l
2
blight@blight-VirtualBox:~$ grep "/usr/sbin/" /etc/passwd | wc -l
39
blight@blight-VirtualBox:~$ grep "/usr/" /etc/passwd | wc -l
39
blight@blight-VirtualBox:~$

blight@blight-VirtualBox:~/Documents/Csv
blight@blight-VirtualBox:~/Documents/Csv$ grep -l 'ford' cars.csv | wc -l
53
blight@blight-VirtualBox:~/Documents/Csv$ ls ~/Documents/Books/bible.txt
/home/blight/Documents/Books/bible.txt
blight@blight-VirtualBox:~/Documents/Csv$ grep -l 'ford' cars.csv | wc -l
53
blight@blight-VirtualBox:~/Documents/Csv$ grep -l '....' ~/Documents/Books/bible.txt | wc -l
31102
blight@blight-VirtualBox:~/Documents/Csv$

blight@blight-VirtualBox: ~/Documents/Csv
Ford Grenada gl made in US
Chrysler Lebaron Salon made in US
Chevrolet Cavalier made in US
Chevrolet Cavalier Wagon made in US
Chevrolet Cavalier 2-door made in US
Pontiac J2000 SE Hatchback made in US
Dodge Aries SE made in US
Pontiac Phoenix made in US
Ford Fairmont Futura made in US
AMC Concord DL made in US
Volkswagen Rabbit l made in Europe
Mazda GLC Custom l made in Japan
Mazda GLC Custom made in Japan
Plymouth Horizon Miser made in US
Mercury Lynx l made in US
Nissan Stanza XE made in Japan
Honda Accord made in Japan
Toyota Corolla made in Japan
Honda Civic made in Japan
Honda Civic (auto) made in Japan
Datsun 310 GX made in Japan
Buick Century Limited made in US
Oldsmobile Cutlass Ciera (diesel) made in US
Chrysler Lebaron Medallion made in US
Ford Grenada l made in US
Toyota Celica GT made in Japan
Dodge Charger 2.2 made in US
Chevrolet Camaro made in US
Ford Mustang GL made in US
Volkswagen Pickup made in Europe
Dodge Rampage made in US
Ford Ranger made in US
Chevy S-10 made in US
blight@blight-VirtualBox:~/Documents/Csv$ awk -F ';' ' {OFS=" made in "} {print $1, $NF}' cars.csv

```

Challenge Question

```

blight@blight-VirtualBox: ~/Documents/Csv
Grape Nuts Flakes
Grape-Nuts
Great Grains Pecan
Honey Graham Ohs
Honey Nut Cheerios
Honey-comb
Just Right Crunchy Nuggets
Just Right Fruit & Nut
Kix
Life
Lucky Charms
Maypo
Muesli Raisins, Dates, & Almonds
Muesli Raisins, Peaches, & Pecans
Mueslix Crispy Blend
Multi-Grain Cheerios
Nut&Honey Crunch
Nutri-Grain Almond-Raisin
Nutri-grain Wheat
Oatmeal Raisin Crisp
Post Nat. Raisin Bran
Product 19
Puffed Rice
Puffed Wheat
Quaker Oat Squares
Quaker Oatmeal
Raisin Bran
Raisin Nut Bran
Raisin Squares
Rice Chex
Rice Krispies
Shredded Wheat
Shredded Wheat 'n'Bran
Shredded Wheat spoon size
Snacks
Special K
Strawberry Fruit Wheats
Total Corn Flakes
Total Raisin Bran
Total Whole Grain
Triples
Trix
Wheat Chex
Wheaties
Wheaties Honey Gold
blight@blight-VirtualBox:~/Documents/csv$ awk -F ';' 'NR > 3 {print $1}' cereal.csv

```

```

blight@blight-VirtualBox: ~/Documents/Csv
Grape-Nuts
Grape Nuts Flakes
Great Grains Pecan
Honey-comb
Honey Graham Ohs
Honey Nut Cheerios
Just Right Crunchy Nuggets
Just Right Fruit & Nut
Kix
Life
Lucky Charms
Maypo
Muesli Raisins, Dates, & Almonds
Muesli Raisins, Peaches, & Pecans
Mueslix Crispy Blend
Multi-Grain Cheerios
Nut&Honey Crunch
Nutri-Grain Almond-Raisin
Nutri-grain Wheat
Oatmeal Raisin Crisp
Post Nat. Raisin Bran
Product 19
Puffed Rice
Puffed Wheat
Quaker Oatmeal
Quaker Oat Squares
Raisin Bran
Raisin Nut Bran
Raisin Squares
Rice Chex
Rice Krispies
Shredded Wheat
Shredded Wheat 'n'Bran
Shredded Wheat spoon size
Snacks
Special K
Strawberry Fruit Wheats
Total Corn Flakes
Total Raisin Bran
Total Whole Grain
Triples
Trix
Wheat Chex
Wheaties
Wheaties Honey Gold
blight@blight-VirtualBox:~/Documents/csv$ awk -F ';' 'NR > 3 {print $1}' cereal.csv | sort

```



```

blight@blight-VirtualBox: ~/Documents/CSV
Great Grains Pecan 120
Honey-comb 110
Honey Graham Ohs 120
Honey Nut Cheerios 110
Just Right Crunchy Nuggets 110
Just Right Fruit & Nut 140
Kix 110
Life 100
Lucky Charms 110
Maypo 100
Muesli Raisins, Dates, & Almonds 150
Muesli Raisins, Peaches, & Pecans 150
Mueslix Crispy Blend 100
Multi-Grain Cheerios 100
name calories
Nut&Honey Crunch 120
Nutri-Grain Almond-Raisin 140
Nutri-grain Wheat 90
Oatmeal Raisin Crisp 130
Post Nat. Raisin Bran 120
Product 19 100
Puffed Rice 50
Puffed Wheat 50
Quaker Oatmeal 100
Quaker Oat Squares 100
Raisin Bran 120
Raisin Nut Bran 100
Raisin Squares 90
Rice Chex 110
Rice Krispies 110
Shredded Wheat 80
Shredded Wheat 'n'Bran 90
Shredded Wheat spoon size 90
Snacks 110
Special K 110
Strawberry Fruit Wheats 90
String Int
Total Corn Flakes 110
Total Raisin Bran 140
Total Whole Grain 100
Triples 110
Trix 110
Wheat Chex 100
Wheaties 100
Wheaties Honey Gold 110
blight@blight-VirtualBox: ~/Documents/CSV$

blight@blight-VirtualBox: ~/Documents/CSV
Grape Nuts Flakes 100
Grape-Nuts 110
Great Grains Pecan 120
Honey Graham Ohs 120
Honey Nut Cheerios 110
Honey-comb 110
Just Right Crunchy Nuggets 110
Just Right Fruit & Nut 140
Kix 110
Life 100
Lucky Charms 110
Maypo 100
Muesli Raisins, Dates, & Almonds 150
Muesli Raisins, Peaches, & Pecans 150
Mueslix Crispy Blend 100
Multi-Grain Cheerios 100
Nut&Honey Crunch 120
Nutri-Grain Almond-Raisin 140
Nutri-grain Wheat 90
Oatmeal Raisin Crisp 130
Post Nat. Raisin Bran 120
Product 19 100
Puffed Rice 50
Puffed Wheat 50
Quaker Oat Squares 100
Quaker Oatmeal 100
Raisin Bran 120
Raisin Nut Bran 100
Raisin Squares 90
Rice Chex 110
Rice Krispies 110
Shredded Wheat 80
Shredded Wheat 'n'Bran 90
Shredded Wheat spoon size 90
Snacks 110
Special K 110
Strawberry Fruit Wheats 90
Total Corn Flakes 110
Total Raisin Bran 140
Total Whole Grain 100
Triples 110
Trix 110
Wheat Chex 100
Wheaties 100
Wheaties Honey Gold 110
blight@blight-VirtualBox: ~/Documents/CSV$ awk -F ';' '{print $1,$4}' cereal.csv | tr ';' ' '

```