lab 7

Question


```
edlantigua@edlantigua-VirtualBox:~/Documents$
edlantigua@edlantigua-VirtualBox:~/Documents$ cd Csv/
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ ls
cars.csv  cereal.csv  contacts.csv  country.csv  film.csv
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ cat 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;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
```

```
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;
Float;Float
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shel
f;weight;cups;rating
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ tac cereal.csv
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ cat -nEv cereal.csv
     1  name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitam
ins;shelf;weight;cups;rating^M$
     2  String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;In
t;Float;Float;Float^M$
     3  100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973^M$
     4  100% Natural Bran;Q;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679^M$
     5  All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505^M$
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ head -n 2 cereal.csv
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shel
f;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;
Float;Float
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ tail  -n 2 cereal.csv
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
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$
```

Question 2

```
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ head -n 1 cars.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ cut -d*;* -f1 cars.csv
cut: you must specify a list of bytes, characters, or fields
Try 'cut --help' for more information.
cars.csv: command not found
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ cut -d";" -f1 cars.csv
Car
STRING
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ cut -d";" -f1,3 cars.csv
Car;Cylinders
STRING;INT
Chevrolet Chevelle Malibu;8
Buick Skylark 320;8
```

```
Chevrolet Camaro + 4
Ford Mustang GL + 4
Volkswagen Pickup + 4
Dodge Rampage + 4
Ford Ranger + 4
Chevy S-10 + 4
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ cut -d";" -f1,3 cars.csv --output-delimiter=" +
"
```

```
Volvo 144ea;19.0;4;121.0;112.0;2868.;15.5;73;Europe
Volvo 145e (sw);18.0;4;121.0;112.0;2933.;14.5;72;Europe
Volvo 244DL;22.0;4;121.0;98.00;2945.;14.5;75;Europe
Volvo 245;20.0;4;130.0;102.0;3150.;15.7;76;Europe
Volvo 264gl;17.0;6;163.0;125.0;3140.;13.6;78;Europe
Volvo Diesel;30.7;6;145.0;76.00;3160.;19.6;81;Europe
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ sort cars.csv
```

```
Nutri-grain Wheat;K;C;90;3;0;170;3;18;2;90;25;3;1;1;59.642837
Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;ra
ting
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
edlantigua@edlantigua-VirtualBox:~/Documents/Csv$ sort -t";" -k4 cereal.csv
```

Question 3

```
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep "war" war-and-peace.txt
Buonapartes. But I warn you, if you don't tell me that this means war,
things, but Austria never has wished, and does not wish, for war. She
Pávlovna's hand and for some reason drawing it downwards. "Arrange
to get himself killed. Tell me what this wretched war is for?" she
she moved toward Anna Pávlovna. Hélène was so lovely that not only
"You are off to the war, Prince?" said Anna Pávlovna.
    * God has given it to me, let him who touches it beware!
more animated. "And believe me, they are reaping the reward of their
```

```
with the self-destruction toward which—ever dissecting and dissecting
*** END OF THE PROJECT GUTENBERG EBOOK WAR AND PEACE ***
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LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT THOSE
OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.
warranties or the exclusion or limitation of certain types of
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -i  "war" war-and-peace.txt
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -ic  "war" war-and-peace.txt
1255
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -iwc  "war" war-and-peace.txt
293
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ 
 Tilix
```

```
all the strange new facts he had learned; but on reaching Orël he
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -1n  "^peace" war-and-peace.txt
5541-of how to get away quickly to her own room to make out the problem in
5542:peace. The old man was beside himself: moved the chair on which he was
5543-sitting noisily backward and forward, made efforts to control himself
--
20045-from this distressful life, and leads it to its place of recompense and
20046:peace.”
20047-
--
26470-a good voice, young, and in nobody's way if only they leave her in
26471:peace.” But however much they left her in peace she could not now be
26472-at peace, and immediately felt this.
--
33899-Balashëv, the Emperor repeated to him the words that he would not make
33900:peace so long as a single armed enemy remained on Russian soil and told
33901-him to transmit those words to Napoleon. Alexander did not insert them
--
34396-be of no use to you; they are worth nothing and have shown it by making
34397:peace with you. As for the Swedes—it is their fate to be governed by
34398-mad kings. Their king was insane and they changed him for
--
35056-others as ninety-nine to one, consisted of men who desired neither
35057:peace nor war, neither an advance nor a defensive camp at the Drissa
 Tilix
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ ls
bible.txt  dracula.txt  great-expectastions.txt  pride-and-prejudice.txt  war-and-peace.txt
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -Rwi "love" ./
./pride-and-prejudice.txt:by allowance” and “loving with personal love.” This distinction applies
./pride-and-prejudice.txt:proper thing to love them. And in the sect--fairly large and yet
./pride-and-prejudice.txt:aversion to actual love. I do not know whether the all-grasping hand of
./pride-and-prejudice.txt:his falling in love at all is not extremely probable. Here again I
./pride-and-prejudice.txt:injured in disposition, and thoroughly in love. As for his being in
./pride-and-prejudice.txt:love, Elizabeth has given as just an exposition of the causes of that
./pride-and-prejudice.txt:ladies with whom it might be a pleasure to fall in love; there are at
./pride-and-prejudice.txt:Grant. I should have been most in love with Beatrix and Argemone; I
./pride-and-prejudice.txt:“So much love and eloquence”                                            15
```

```
65561:The search for these laws has long been begun and the new methods of
65622:The struggle between the old views and the new was long and stubbornly
65963:The Project Gutenberg Literary Archive Foundation is a non-profit
65971:The Foundation's business office is located at 809 North 1500 West,
65987:The Foundation is committed to complying with the laws regulating
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -nwc "^The" war-and-peace.txt
1032
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -nR "^l...d" ./
./pride-and-prejudice.txt:1748:liked a red coat myself very well--and, indeed, so I do still at m
y
./pride-and-prejudice.txt:9502:lived. Not like the wild young men now-a-days, who think of nothin
g but
./pride-and-prejudice.txt:10044:loved her, but for loving her still well enough to forgive all th
e
./pride-and-prejudice.txt:13976:liked him but Jane; and even feared that with the others it was a
./great-expectastions.txt:153:lamed by stones, and cut by flints, and stung by nettles, and torn
by
./great-expectastions.txt:1696:loved Joe,—perhaps for no better reason in those early days than
./great-expectastions.txt:2141:lived in a large and dismal house barricaded against robbers, and
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -wmiR "^d[aeiou]..." ./
grep: invalid max count
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -wniR "^d[aeiou]..." ./
./pride-and-prejudice.txt:448:Darcy; nearly all of them would have palpitated and fluttered at th
e
./pride-and-prejudice.txt:1050:dance."
./pride-and-prejudice.txt:1064:Darcy, looking at the eldest Miss Bennet.
./pride-and-prejudice.txt:1138:dear, to have given him one of your set-downs. I quite detest the
man."
./pride-and-prejudice.txt:1427:dark. There are so much of gratitude or vanity in almost every
./pride-and-prejudice.txt:1879:dirty weather, and by herself, was almost incredible to Mrs. Hurst
 and
./pride-and-prejudice.txt:2349:Darcy only smiled; and the general pause which ensued made Elizabe
th
./pride-and-prejudice.txt:2575:Darcy had much better finish his letter."
./pride-and-prejudice.txt:2612:dare."
```

```
edlantigua@edlantigua-VirtualBox:~/Documents/Books$
edlantigua@edlantigua-VirtualBox:~/Documents/Books$ grep -iE "f{2}" dracula.txt
which they said was "mamaliga," and egg-plant stuffed with forcemeat, a
undergarment with long double apron, front, and back, of coloured stuff
without effect. Finally she went down on her knees and implored me not
dried her eyes, and taking a crucifix from her neck offered it to me. I
hills I know not, for it is so far off that big things and little are
pointed two fingers towards me. With some difficulty I got a
```