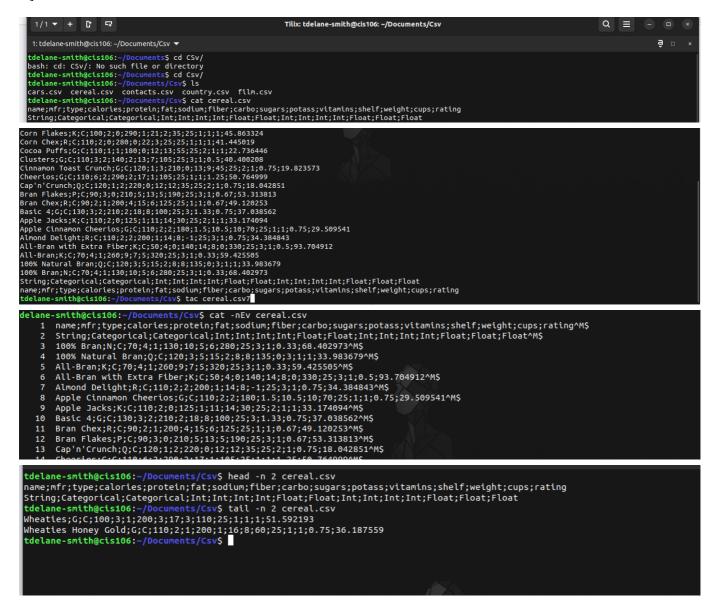
lab7.md 2024-05-01

Lab 7

Question 1



Question 2

lab7.md 2024-05-01

```
tdelane-smith@cis106:~/Documents/Csv$ head -n 1 cars.csv
  Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
 tdelane-smith@cis106:~/Documents/Csv$ cut -d";" -f1 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
  tdelane-smith@cis106:~/Documents/Csv$ cut -d";" -f1,3 cars.csv
 Car;Cylinders
 STRING;INT
  Chevrolet Chevelle Malibu;8
 Buick Skylark 320;8
  Plymouth Satellite;8
  AMC Rebel SST;8
  Ford Torino;8
  Ford Galaxie 500
 Chrysler Lebaron Salon = 6
Chevrolet Cavalier = 4
Chevrolet Cavalier Wagon = 4
Chevrolet Cavalier 2-door = 4
Pontiac J2000 SE Hatchback = 4
Pontiac Phoenix = 4
Ford Fairmont Futura = 4
 roid ratimonic rutuia = 4
AMC Concord DL = 4
Volkswagen Rabbit l = 4
Mazda GLC Custom = 4
Plymouth Horizon Miser = 4
 Mercury Lynx l = 4
Nissan Stanza XE = 4
Honda Accord = 4
Toyota Corolla = 4
Toyota Corolla = 4
Honda Civic = 4
Honda Civic (auto) = 4
Datsun 310 GX = 4
Buick Century Limited = 6
Oldsmobile Cutlass Ciera (diesel) = 6
Chrysler Lebaron Medallion = 4
Ford Grenada l = 6
Toyota Celica GT = 4
Dodge Charger 2.2 = 4
Chevrolet Camaro = 4
Ford Mustang GL = 4
Volkswagen Pickup = 4
Dodge Rampage = 4
Ford Ranger = 4
Chevy S-10 = 4
Chevy S-10 = 4
Tdelane-smith@cis106:~/Documents/Csv$ cut -d";" -f1,3 cars.csv --output-delimiter=" = " Levolkswagen Rabbut 1:30.0;4:105.0;74.00;1980.;15.3;82;Europe
     Volkswagen kabbit i;36.0;4;105.0;74.00;1980.;15.3;82;Europe
Volkswagen Scirocco;31.5;4;89.00;71.00;1990.;14.9;78;Europe
   Volkswagen Scirocco;31.5;4;89.00;71.00;1990.;14.9;78;Europe
Volkswagen Super Beetle 117;0;4;97.00;48.00;1978.;20.0;71;Europe
Volkswagen Super Beetle;26.0;4;97.00;46.00;1950.;21.0;73;Europe
Volkswagen Type 3;23.0;4;97.00;54.00;2254.;23.5;72;Europe
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
tdelane-smith@cis106:~/Documents/Csv$ sort cars.csv
Alt-Bran;K;(;)0;4;1;200;9;7;5;320;25;3;1;0.33;59.425505

Shredded Wheat;N;(;80;2;0;0;3;16;0;95;0;1;0.83;1;68.235885

Raisin Squares;K;(;90;2;0;0;2;15;6;110;25;3;1;0.5;55.333142

Strawberry Fruit Wheats;N;(;90;2;0;15;3;15;5;90;25;2;1;1;9.363993

Bran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253

Shredded Wheat spoon stze;N;(;90;3;0;0;3;20;0;120;0;1;1;0.67;72.801787

Shredded Wheat 'n' Bran;N;(;90;3;0;0;4;19;0;140;0;1;1;0.67;74.472949

Nutri-grain Wheat;K;C;90;3;0;170;3;18;2;90;25;3;1;0.67;53.313813

Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813

Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813

Branme;mfr;type;calories;protechin;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating

String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Float;Float;Float
```

Question 3

2024-05-01 lab7.md

tdelane-smith@cis106:~/Documents/Csv\$ cd ../Books/

```
delane-smith@cis106:~/Documents/Books$ ls
oible.txt dracula.txt great-expectastions.txt pride-and-prejudice.txt war-and-peace.txt
tdelane-smith@cis106:~/Documents/Books$ grep "War" war-and-peace.txt
The Project Gutenberg eBook of War and Peace, by Leo Tolstoy
Title: War and Peace
the Minister of War."
In to the Minister of War. Five minutes later he returned and bowing
corridor to the cabinet where the Minister of War was at work. The narrowed disdainfully, he entered the room of the Minister of War with
interested the Minister of War less than any of the other matters he was
or mother, or self-sacrifice with the possibility of a reward, is more with the self-destruction toward which—ever dissecting and dissecting *** END OF THE PROJECT GUTENBERG EBOOK WAR AND PEACE ***

1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES - Except for the "Right 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.
                         self-sacrifice with the possibility of a re
 warranties or the exclusion or limitation of certain types of tdelane-smith@cis106:~/Documents/Books$ grep -i "War" war-and-peace.txt
tdelane-smith@cis106:~/Documents/Books$ grep -ic "War" war-and-peace.txt
1255
tdelane-smith@cis106:~/Documents/Books$ grep -iwc "War" war-and-peace.txt
293
tdelane-smith@cis106:~/Documents/Books$ grep -i "^peace" war-and-peace.txt
  peace. The old man was beside himself: moved the chair on which he was
  peace." But however much they left her in peace she could not now be
  peace so long as a single armed enemy remained on Russian soil and told peace with you. As for the Swedes—it is their fate to be governed by
   eace nor war, neither an advance nor a defensive camp at the Drissa
   eace and the abolition of war, and secondly, by the fact that when he
  eaceful, and glorious fatherland, I should have proclaimed eace arising from consciousness of having stifled those personal dreams
   eace, he said: There can be no peace, for such is the people's will. He
 peaceful refuge where he could recover himself, rest, and think over
tdelane-smith@cis106:~/Documents/Books$ grep -in "^peace" war-and-peace.txt
     42: peace. The old man was beside himself: moved the chair on which he was
   0046:peace."
   6471:peace." But however much they left her in peace she could not now be
   3900:peace so long as a single armed enemy remained on Russian soil and told 4397:peace with you. As for the Swedes—it is their fate to be governed by
   5057:peace nor war, neither an advance nor a defensive camp at the Drissa
   6617:oldsymbol{\mathsf{peace}} and the abolition of war, and oldsymbol{\mathsf{secondly}}, by the fact that when he
   4768:peaceful, and glorious fatherland, I should have proclaimed
       93:peace arising from consciousness of having stifled those personal dreams
   8824:peace, he said: There can be no peace, for such is the people's will. He 9768:peaceful refuge where he could recover himself, rest, and think over
                                                                ents/BooksS
        :The second consideration is the more or less evident time relation of :The degree of our conception of freedom or inevitability depends in this
       3:The degree of our conception of freedom or inevitability depends in this 3:The Austro-Prussian war appears to us undoubtedly the result of the 6:The third consideration is the degree to which we apprehend that 2:The better we are acquainted with the physiological, psychological, and 6:The great natural forces lie outside us and we are not conscious of 7:The recognition of man's free will as something capable of influencing 4:The more this field of motion spreads out before our eyes, the more 1:The search for these laws has long been begun and the new methods of 2:The struggle between the old views and the new was long and stubbornly 3:The Project Cutenberg Literary Archive Foundation is a popularity.
         The Project Gutenberg Literary Archive Foundation is a non-profit:
The Foundation's business office is located at 809 North 1500 West,
        :The Foundation is committed to complying with the laws regulating
delane-smith@cis106:~/Documents/Books$
tdelane-smith@cis106:~/Documents/Books$ grep -Rwi "love" ./
./dracula.txt:know her is to love her. I long to go through the crowded streets of
                             also that there is a chapel of old times. We Transylvanian nobles love
                           t:battlements and casements. I love the shade and the shadow, and would
                            :thought and many blushes, her ill-spelt love-letter, and writing in my :"You yourself never loved; you never love!" On this the other women
                          t:"Yes, I too can love; you yourselves can tell it from the past. Is it
idelane-smith@cis106:~/Documents/Books$ grep -n
grep: ./: Is a directory
idelane-smith@cis106:~/Documents/Books$ grep -nR "^l...d" ./
/dracula.txt:5597:lay down, and when I went over to Bersicker he let me stroke his ears
./dracula.txt:5597:lay down, and when I went over to Bersicker he let me stroke his ears
./dracula.txt:19540:loved and honoured as our host is, everything regarding him is of
./dracula.txt:14713:loved him and honoured him more than I can say, and that my latest and
./dracula.txt:15427:loved her, that they did dare much for her sake."
./war-and-peace.txt:5254:liked to. He looked inquiringly at his monitress and saw that she was
./war-and-peace.txt:12933:liked to tell him. He gathered up the papers and with a bow to both,
./war-and-peace.txt:12933:liked to repeat to herself. It was the story of a girl who had been
./war-and-peace.txt:13034:loved more than himself. He kept telling himself that he would consider
./war-and-peace.txt:13317:liked to help young men, was flattered by being asked for his assistance
./war-and-peace.txt:21373:lived for glory.—And after all what is glory? The same love of others,
./war-and-peace.txt:21375:lived for others, and not almost, but quite, ruined my life. And I have
```

lab7.md 2024-05-01

```
tdelane-smith@cis106:~/Documents/Books$ grep -wniR "^d[aeiou]..." ./
/dracula.txt:136:don't know how I should be able to get on without it.
/dracula.txt:299:down, and, lest who reads them may fancy that I dined too well before I
/dracula.txt:511:delay. By-and-by, however, as I was curious to know how time was
/dracula.txt:534:doing, and with extraordinary effect, for under his caresses they became
/dracula.txt:712:door:--
/dracula.txt:1234:diary seems horribly like the beginning of the "Arabian Nights," for
/dracula.txt:1245:doing of certain kinds of business. I had spent the day wearily over
/dracula.txt:1371:doubt in question. I shall not fear to sleep in any place where he is
/dracula.txt:1469:diary in shorthand all that has happened since I closed it last. It is
/dracula.txt:1518:dust. In the moonlight opposite me were three young women, ladies by
/dracula.txt:2043:doom; I was to be given to the wolves, and at my own instigation. There
```

tdelane-smith@cis106:~/Documents/Books\$ grep -iE "a{2}" dracula.txt help me deck the room with my garlic, which is all the way from Haarlem, Haarlem. To-night Dr. Van Helsing is going away, as he has to be for a tdelane-smith@cis106:~/Documents/Books\$