Lab 7 submission

Question 1

Question 2

```
rdeida@cis106vm:~/Documents/Csv$ cut -d";" -f1,3 --output-delimiter=" = " cars.
csv
Car = Cylinders
STRING = INT
Chevrolet Chevelle Malibu = 8
Buick Skylark 320 = 8
Plymouth Satellite = 8
```

```
rdeida@cis106vm:~/Documents/Csv$ sort 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;0;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
```

```
Raisin Squares;K;C;90;2;0;0;2;15;6;110;25;3;1;0.5;55.333142
Strawberry Fruit Wheats;N;C;90;2;0;15;3;15;5;90;25;2;1;1;59.363
Bran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253
Shredded Wheat spoon size;N;C;90;3;0;0;3;20;0;120;0;1;1;0.67;72
Shredded Wheat 'n'Bran;N;C;90;3;0;0;4;19;0;140;0;1;1;0.67;74.47
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;po
elf;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;
t;Float;Float
rdeida@cis106vm:~/Documents/Csv$ sort -t";" -k 4 cereal.csv
```

Question 3

```
rdeida@cis106vm:~/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
indifferent hands of the Minister of War and the polite adjutant. The
engagement and his reception by the Minister of War.
the Minister of War but also his Most August Majesty the Emperor and
invincibility of the French, and the Minister of War does not even care
to the Emperor Francis; he remembered the Minister of War, the polite
his own house. The Minister of War came up and congratulated him on the
That same night, having taken leave of the Minister of War, Bolkónski
```

```
rdeida@cis106vm:~/Documents/Books$ grep -i "War" war-and-peace.txt
The Project Gutenberg eBook of War and Peace, by Leo Tolstoy
Title: War and Peace
*** START OF THE PROJECT GUTENBERG EBOOK WAR AND PEACE ***
WAR AND PEACE
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
through his lorgnette, suddenly turned completely round toward the
```

```
rdeida@cis106vm:~/Documents/Books$ grep -c "War" war-and-peace.txt
29
rdeida@cis106vm:~/Documents/Books$ grep -ic "War" war-and-peace.txt
1255
rdeida@cis106vm:~/Documents/Books$ █
```

```
rdeida@cis106vm:~/Documents/Books$ grep -iwc "War" war-and-peace.txt
293
rdeida@cis106vm:~/Documents/Books$ █
```

```
rdeida@cis106vm:~/Documents/Books$ grep -ni "^peace" war-and-peace.txt
5542:peace. The old man was beside himself: moved the chair on which he was
20046:peace."
26471:peace." But however much they left her in peace she could not now be
33900:peace so long as a single armed enemy remained on Russian soil and told
34397:peace with you. As for the Swedes—it is their fate to be governed by
35057:peace nor war, neither an advance nor a defensive camp at the Drissa
36617:peace and the abolition of war, and secondly, by the fact that when he
44768:peaceful, and glorious fatherland, I should have proclaimed
51593:peace arising from consciousness of having stifled those personal dreams
58824:peace, he said: There can be no peace, for such is the people's will. He
59768:peaceful refuge where he could recover himself, rest, and think over
```

```
rdeida@cis106vm:~/Documents/Books$ grep -nw "^The" war-and-peace.txt
972:The prince was silent and looked indifferent. But, with the womanly and
982:The prince bowed to signify his respect and gratitude.
1004:The prince answered nothing, but she looked at him significantly,
1081:The Abbé Morio and many others had also come.
1102:The young Princess Bolkónskaya had brought some work in a
1118:The little princess went round the table with quick, short, swaying
1221:The third group was gathered round Mortemart and Anna Pávlovna.
```

```
rdeida@cis106vm:~/Documents/Books$ grep -Riw "love" ./
./dracula.txt:know her is to love her. I long to go through the crowded streets
 of
./dracula.txt:also that there is a chapel of old times. We Transylvanian nobles
 love
./dracula.txt:battlements and casements. I love the shade and the shadow, and w
ould
./dracula.txt:thought and many blushes, her ill-spelt love-letter, and writing
in my
./dracula.txt:"You yourself never loved; you never love!" On this the other wom
en
./dracula.txt:"Yes, I too can love; you yourselves can tell it from the past. I
s it
./dracula.txt:to speak more. Oh, Mina, couldn't you guess? I love him. I am blu
shing
```

```
rdeida@cis106vm:~/Documents/Books$ grep -Rn "^l...d" ./
./dracula.txt:5597:lay down, and when I went over to Bersicker he let me stroke
 his ears
./dracula.txt:9540: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."
```

```
rdeida@cis106vm:~/Documents/Books$ grep -R "^d[aeiou]..." ./
./dracula.txt:don't know how I should be able to get on without it.
./dracula.txt:descendants of the Dacians; Magyars in the West, and Szekelys in
the
./dracula.txt:directing him to secure the best place on the coach for me; but o
n
./dracula.txt:did not know what to do, for, as an English Churchman, I have bee
n
./dracula.txt:down, and, lest who reads them may fancy that I dined too well be
fore I
./dracula.txt:disagreeable. I had only a couple of glasses of this, and nothing
 else.
./dracula.txt:dictionary from my bag and looked them out. I must say they were
not
./dracula.txt:deep blue and purple in the shadows of the peaks, green and brown
 where
```

```
rdeida@cis106vm:~/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
rdeida@cis106vm:~/Documents/Books$ 
```