

Lab 8

Question 1

```
nop@cis106:~/Documents/Csv$ cat cereal.csv
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Maintenance</title>
    <style>
      body {
        text-align: center;
        font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
        margin: auto;
        width: 100%;
      }
      h1 {
        font-size: 28px;
        color: #456;
      }
      h2 {

```

```
nop@cis106:~/Documents/Csv$ tac cereal.csv
</svg>
  <h1>En raison d'une maintenance électrique les services numériques sont indisponibles du vendredi 15 novembre 20h au dimanche 17 novembre midi.</h1>
  <h2>Nous vous prions de bien vouloir nous excuser pour la gêne occasionnée.</h2>
  <h1>Due to electrical maintenance, the applications are unavailable from Friday, November 15, 8 p.m. to Sunday, November 17, noon.</h1>
  <h2>We apologize for the inconvenience.</h2>
</body>
</html>
```

```
nop@cis106:~/Documents/Csv$ cat -n -A cereal.csv | sed 's/$/$_'
 1  <!DOCTYPE html>$_
 2  <html>$_
 3    <head>$_
 4      <meta charset="UTF-8">$_
 5      <title>Maintenance</title>$_
 6      <style>$_
 7        body {$_
 8          text-align: center;$_
 9          font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;$_
10          margin: auto;$_
11          width: 100%;$_
12        }$_
13        h1 {$_
14          font-size: 28px;$_
15          color: #456;$_
16        }$_
17        h2 {$_
18          font-size: 20px;$_
19          color: #666;$_
20        }$_
21      </style>$_
22    </head>$_
23  $_
```

```
1: nop@cis106: ~/Documents/Csv  ▢ ×
nop@cis106:~/Documents/Csv$ head -n 2 cereal.csv
<!DOCTYPE html>
<html>
nop@cis106:~/Documents/Csv$ tail -n 2 cereal.csv
  </body>
</html>
nop@cis106:~/Documents/Csv$
nop@cis106:~/Documents/Csv$
```

Question 2

```
nop@cis106:~/Documents/Csv$ cut -d, -f1 cars.csv
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Maintenance</title>
    <style>
      body {
        text-align: center;
        font-family: "Helvetica Neue"
        margin: auto;
        width: 100%;
      }
      h1 {
        font-size: 28px;
        color: #456;
      }
      h2 {
        font-size: 20px;
        color: #666;
      }
    </style>
  </head>
```

```
1: nop@cis106: ~/Documents/Csv ▾
nop@cis106:~/Documents/Csv$ cut -d, -f1,3 cars.csv
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Maintenance</title>
    <style>
      body {
        text-align: center;
        font-family: "Helvetica Neue", Arial
        margin: auto;
        width: 100%;
      }
      h1 {
        font-size: 28px;
        color: #456;
      }
      h2 {
        font-size: 20px;
        color: #666;
      }
    </style>
  </head>
```

```
nop@cis106:~/Documents/Csv$ cut -d' = ' -f1,3 cars.csv
cut: the delimiter must be a single character
Try 'cut --help' for more information.
nop@cis106:~/Documents/Csv$ cut -d'=' -f1,3 cars.csv
<!DOCTYPE html>
<html>
  <head>
    <meta charset
    <title>Maintenance</title>
    <style>
      body {
        text-align: center;
        font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
        margin: auto;
        width: 100%;
      }
      h1 {
        font-size: 28px;
        color: #456;
      }
      h2 {
        font-size: 20px;
        color: #666;
      }
    </style>
  </head>
  <body>
    <div>
      <h1>Maintenance</h1>
      <h2>Maintenance</h2>
    </div>
  </body>
</html>
```

```
nop@cis106:~/Documents/Csv$ sort cars.csv
  }
  }
  }
  body {
</body>
<body>
  bordercolor="#666666"
  borderopacity="1"
  </cc:Work>
  <cc:Work
    class="cls-1"
    class="cls-1"
    class="cls-1"
    class="cls-1"
    class="cls-1"
    class="cls-1"
    class="cls-1"
    class="cls-1"
    class="cls-2"
    class="cls-2"
    class="cls-2"
    class="cls-2"
  </cc:Work>
</body>
```

```
1: nop@cis106: ~/Documents/Csv ▾
nop@cis106:~/Documents/Csv$ sort -t, -k3 -n cereal.csv
d="M 0,0 -129.58,-129.59 V 0 Z"
d="M 0,0 V -129.59 H -129.589 V 0 l 64.795,-64.795 z"
d="m 199.46,206.56 -0.06,-43.19 h -7.33 c -0.76,1 -0.25,5.59 -2.57,6.47 -
7.84,-1.76 -0.69,-2.65 -3.38,-6.47 -0.34,0 -3.54,0 -3.88,0 0.36,0 1.73,1.58 -0.3
2,3.34 -2.75,18.11 2.31,25.49 -0.25,39.84 z"
d="M 0,0 6.646,-19.542 H 6.725 L 13.015,0 H 21.81 V -28.418 H 15.96 V -
8.279 H 15.88 L 8.915,-28.418 H 4.1 l -6.965,19.94 h -0.08 v -19.94 h -5.85 V 0
Z"
d="m 171.68,135.66 v -0.54 h 1.75 v -12.64 h -1.63 v -0.57 h 4.59 v 13.21
h 1.55 v 0.54 z m 4.78,-16.94 a 1.7,1.7 0 0 1 -1.86,1.52 1.55,1.55 0 1 1 1.86,-
1.52 z"
d="m 89.7467,71.029437 h -1.9939 v -7.259109 h 1.9939 z m -1.9939,-10.025
24 h 1.9939 v 1.642885 h -1.9939 z"
d="m 0,0 -4.219,-7.044 h 3.94 L 6.209,0 Z"
d="m 0,0 -4.219,-7.044 h 3.94 L 6.209,0 Z"
d="M 0,0 H 1.609 L 6.902,-6.832 V 0 H 8.61 V -9.881 H 7.156 l -5.448,
7.03 v -7.03 H 0 Z"
d="M 0,0 H 1.609 L 6.902,-6.832 V 0 H 8.61 V -9.881 H 7.158 l -5.45,7
.03 v -7.03 H 0 Z"
d="m 177.59,186.36 c -2.06,-5 2.65,-21.71 -5,-23.08 a 2.75,2.75 0 0 0 -2.
2,0.78 6.08,6.08 0 0 1 2.57,4 c -1.78,3.92 -5.48,-0.87 -8,0.44 v 3.19 c -1,0.86
-1.78,2 -3.25,1.59 -0.89,-1 -2.08,-1.74 -1.64,-3.18 0.91,-1.89 3,-1.16 4.3,-2 a
1,1 0 0 1 -0.08,-0.14 c -2.53,-0.62 -2.2,-4.56 -6.48,-4.56 h -8.17 c -3.79,1.17
```

Question 3

```
nop@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
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
Austrian Council of War at which Suvórov crowed like a cock in reply to
Warmed by the spring sunshine he sat in the calèche looking at the new
Minister of War, Count Arakchéev.
```

```
nop@cis106:~/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
Prince Andrew, who had evidently wished to tone down the awkwardness of
his kindly, simple, and modest expression. Anna Pávlovna turned toward
awkwardness or intentionally (no one could have said which) after the
to tell you. There is a war now against Napoleon. If it were a war for
wars," he said.
"Well, why are you going to the war?" asked Pierre.
wants to go to the war," replied Pierre, addressing the princess
without wars. How is it that we women don't want anything of the kind,
so to me? What have I done to you? You are going to the war and have no
he worked went step by step toward his goal. He was free, he had nothing
```

```
nop@cis106:~/Documents/Books$ grep -ic "war" war-and-peace.txt
1255
nop@cis106:~/Documents/Books$ grep -iw "war" war-and-peace
grep: war-and-peace: No such file or directory
nop@cis106:~/Documents/Books$ grep -iw "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
to get himself killed. Tell me what this wretched war is for?" she
"You are off to the war, Prince?" said Anna Pávlovna.
to tell you. There is a war now against Napoleon. If it were a war for
"Well, why are you going to the war?" asked Pierre.
wants to go to the war," replied Pierre, addressing the princess
so to me? What have I done to you? You are going to the war and have no
the enchanted circle I cannot escape from. I am now going to the war,
the greatest war there ever was, and I know nothing and am fit for
"But they say that war has been declared," replied the visitor.
of the war that had been announced in a manifesto, and about the
sir, for shame! It would be better if you went to the war."
The colonel told them that the declaration of war had already appeared
heard that the war was being discussed had turned from his partner with
```

```
nop@cis106:~/Documents/Books$ grep -n "^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
nop@cis106:~/Documents/Books$ grep -n "^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.
1223:The vicomte was a nice-looking young man with soft features and polished
1240:The vicomte bowed and smiled courteously in token of his willingness to
1251:The vicomte wished to begin his story and gave a subtle smile.
1257:The princess smiled. She rose with the same unchanging smile with which
```

```

nop@cis106:~/Documents/Books$ grep -i -w "love" *.txt
bible.txt:Genesis 27:4 And make me savory meat, such as I love, and bring it to
me, that I may eat; that my soul may bless thee before I die.
bible.txt:Genesis 29:20 And Jacob served seven years for Rachel; and they seemed
unto him but a few days, for the love he had to her.
bible.txt:Genesis 29:32 And Leah conceived, and bare a son, and she called his n
ame Reuben: for she said, Surely the LORD hath looked upon my affliction; now th
erefore my husband will love me.
bible.txt:Exodus 20:6 And showing mercy unto thousands of them that love me, a
nd keep my commandments.
bible.txt:Exodus 21:5 And if the servant shall plainly say, I love my master,
my wife, and my children; I will not go out free:
bible.txt:Leviticus 19:18 Thou shalt not avenge, nor bear any grudge again
st the children of thy people, but thou shalt love thy neighbor as thyself: I am
the LORD.
bible.txt:Leviticus 19:34 But the stranger that dwelleth with you shall be
unto you as one born among you, and thou shalt love him as thyself; for ye were
strangers in the land of Egypt: I am the LORD your God.
bible.txt:Deuteronomy 5:10 And showing mercy unto thousands of them that lo
ve me and keep my commandments.
bible.txt:Deuteronomy 6:5 And thou shalt love the LORD thy God with all th
ine heart, and with all thy soul, and with all thy might.
bible.txt:Deuteronomy 7:7 The LORD did not set his love upon you, nor choo
se you, because ye were more in number than any people; for ye were the fewest o

```

```

nop@cis106:~/Documents/Books$ grep -n -E "\bl[a-zA-Z]{3}d\b" *.txt
bible.txt:109:Genesis 5:3 And Adam lived an hundred and thirty years, and
began a son in his own likeness, and after his image; and called his name Seth:
bible.txt:111:Genesis 5:5 And all the days that Adam lived were nine hundr
ed and thirty years: and he died.
bible.txt:112:Genesis 5:6 And Seth lived an hundred and five years, and be
gan Enos:
bible.txt:113:Genesis 5:7 And Seth lived after he began Enos eight hundred
and seven years, and began sons and daughters:
bible.txt:115:Genesis 5:9 And Enos lived ninety years, and began Cainan:
bible.txt:116:Genesis 5:10 And Enos lived after he began Cainan eight hundr
ed and fifteen years, and began sons and daughters:
bible.txt:118:Genesis 5:12 And Cainan lived seventy years and began Mahalal
eel:
bible.txt:119:Genesis 5:13 And Cainan lived after he began Mahalaleel eight
hundred and forty years, and began sons and daughters:
bible.txt:121:Genesis 5:15 And Mahalaleel lived sixty and five years, and b
egan Jared:
bible.txt:122:Genesis 5:16 And Mahalaleel lived after he began Jared eight
hundred and thirty years, and began sons and daughters:
bible.txt:124:Genesis 5:18 And Jared lived an hundred sixty and two years,
and he began Enoch:
bible.txt:125:Genesis 5:19 And Jared lived after he began Enoch eight hundr
ed years, and began sons and daughters:

```



```
1: nop@cis106: ~/Documents/Books
great-expectastions.txt:7288:As he was fast making jam of his fruit by wrestling
  with the door while
great-expectastions.txt:7291:the door as if it were a wild beast. It yielded so
  suddenly at last,
great-expectastions.txt:7293:door, and we both laughed. But still I felt as if m
y eyes must start
great-expectastions.txt:7314:fight, I dare say. But dear me, I beg your pardon,
  you're holding the
great-expectastions.txt:7355:to me. But she couldn't,—at all events, she didn't.
  ”
great-expectastions.txt:7373:“Pooh!” said he, “I didn't care much for it. _She's
  _ a Tartar.”
great-expectastions.txt:7396:out laughing again, and asked me if I was sore afte
rwards? I didn't ask
great-expectastions.txt:7426:occasion before we sat down to dinner, but I cannot
  define by what
great-expectastions.txt:7433:His figure was a little ungainly, as in the days wh
en my knuckles had
great-expectastions.txt:7449:want very few hints. I dare say we shall be often t
ogether, and I
great-expectastions.txt:7472:“Then, my dear Handel,” said he, turning round as t
he door opened,
great-expectastions.txt:7503:the object), and you save a good deal of the attitu
de of opening

nop@cis106:~$ grep -o -E "\b\w*a{2}\w*\b" *.txt
nop@cis106:~$
```