Compilers – Fall 2022

HW3: Regular Expression and Practices   **Total: 10 points**

Objective: A small practice with regular expression and grep

Download the "datafile" from the blackboard and all the following questions are based on the datafile.

The testing environment would be in the "sand" server. All of you knows that, sand.truman.edu

All of the questions, need to use "grep" and you can "cat" the "datafile" to see what is that inside.

However, you still need to check the spec of "grep" first by giving "grep - - help"

Finally, if there is not matching anything. Don't get panic! It is just noting is matched ^_^

Due date? 10/17/2022 23:59PM

Q1. (1 pt)

Display all the lines including the string "San"

Q2 (1 pt)

Display all the lines start with capitalized "J" as a first name

Q3 (1 pt)

Display all the lines start with K or k, as a first name

Q4 (1 pt)

Display all the lines ended with "700"

Q5 (1 pt)

Display all the lines not including "834"

Q6 (1 pt)

Display all the lines like this:

It starts with a capitalized character, followed by 4 small characters, then one colon, a space and a capitalized character.

Q7 (1 pt)

Display all the lines like this:

It starts with a capitalized character, followed by 4 small characters, then one colon.

Q8 (1 pt)

Display any lines are containing 'Lincoln' or 'lincoln'.

Q9 (1 pt)

Display any lines are containing someone's birthday in December

Q10 (1 pt)

Display any lines are containing someone's salary in more than several hundred thousand(s) (6 digits)

[Hint] Digits, repeated for 6 times. No limitations for the maximum