**Lab 6 Assignment**

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Write a sed command to

1. print lines numbers of lines beginning with “O”



1. delete digits in the given input file.



1. delete lines that contain both BEGIN and END

A screenshot of a computer screen

Description automatically generated

1. delete lines that contain BEGIN but not END

A screen shot of a computer

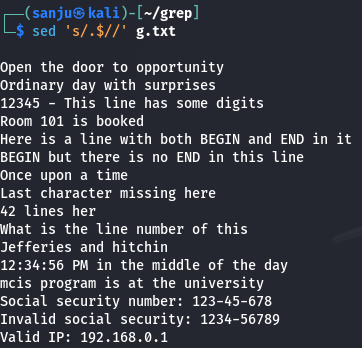
Description automatically generated

1. deletes the first character in each line in a file

A screenshot of a computer

Description automatically generated

1. deletes the last character in each line in a file

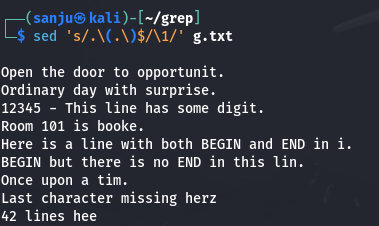


1. deletes the first character, (if it numeric ) in each line in a file.

A screenshot of a computer

Description automatically generated

1. deletes the character before the last character in each line in a file.

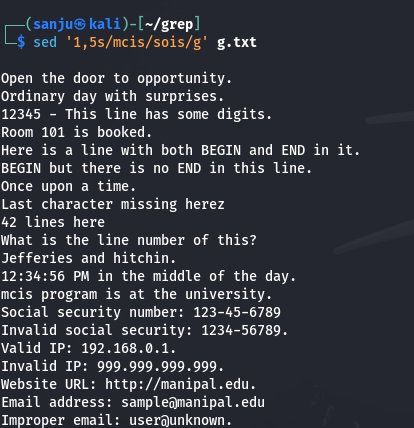


1. that swaps the first and second words in each line in a file

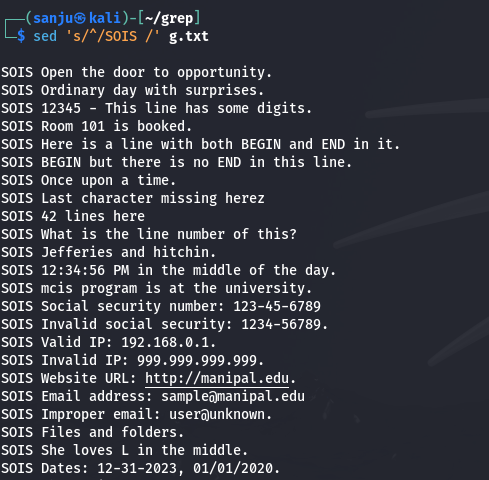
A screenshot of a computer

Description automatically generated

1. replace the word “mcis” with “sois” in the first five lines in a file



1. add “SOIS” prefix to all the lines



1. add “.” at the end of each line in the file.

A screenshot of a computer program

Description automatically generated

1. Pick the line with Social security number in the format of 999-99-9999

A computer code with numbers

Description automatically generated

1. Pick the Valid IP address of the computer (4 numbers separated by ‘.’). (e.g. 192.168.0.1)

A computer screen with numbers and letters

Description automatically generated

1. Pick the Valid URL beginning with “http://”. (e.g. <http://manipal.edu>)

A computer screen with text

Description automatically generated

1. Pick the Valid email address, assuming ‘a-z’,’0-9’,’-‘,’.’ are the valid characters for user ID, and domain name has to end with either “.com” or “.net”

A black background with yellow and blue text

Description automatically generated

1. Print all lines containing words that start with "f" and end with "s".

A computer screen with text

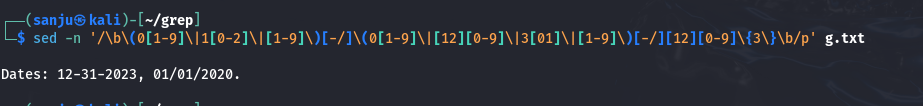
Description automatically generated

1. Print lines containing a capital "L", but not as the first character on the line

A computer screen with white text

Description automatically generated

1. matches dates in the American MM-DD-YYYY format where months and days can be 1 or 2 digits, years must be 4 digits starting with a 1 or a 2, and the delimiter is either "-" or "/" but not both.

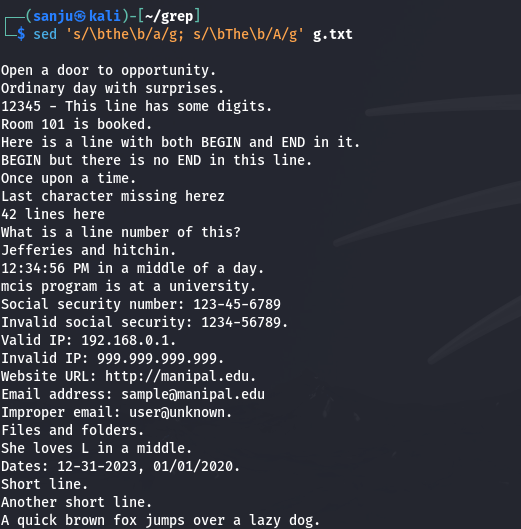


1. print all the lines of a file that are less than 10 characters in length.

A computer code with text

Description automatically generated with medium confidence

1. replace all occurrences in a file of "the" with "a" and "The" with "A".

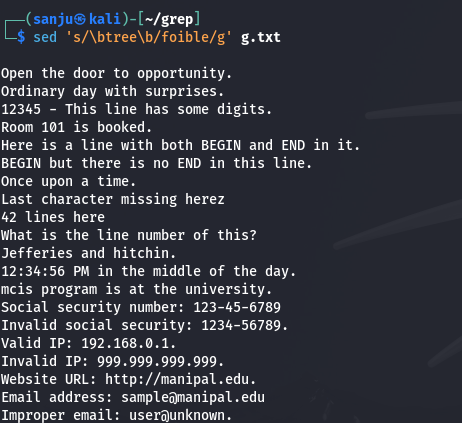


1. substitute the word "button" for "tree", only if tree occurs at the end of a line.

A screenshot of a computer screen

Description automatically generated

1. substitute the word foible for the word tree but not the word trees.



1. change a text so that every period at the end of a sentence is changed to an exclamation point (!) and every question mark is replaced with an ellipsis (...)

A screenshot of a computer screen

Description automatically generated

1. Change every occurrence of the word 'me' with 'you' but only at the end of a line.

A screenshot of a computer screen

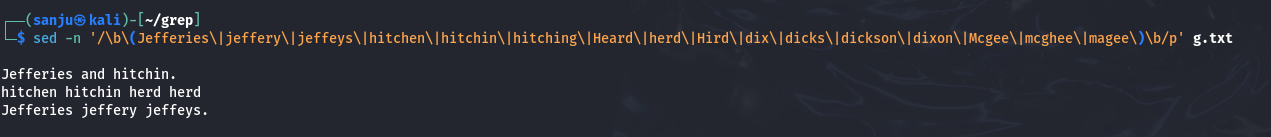
Description automatically generated

1. change a document so that every occurrence of a three-letter abbreviation for a month is replaced by the appropriate number, i.e., Jan is replace by 1, Feb by 2 etc.

A black background with yellow and blue lines

Description automatically generated

1. match lines containing (i) Jefferies jeffery jeffeys (ii) hitchen hitchin hitching (iii) Heard herd Hird (iv) dix dicks dickson dixon (v) Mcgee mcghee magee.



1. replace all multiple spaces in a string by only one space.

A computer screen shot of a program

Description automatically generated

1. A line comment in C is introduced by the sequence //. Alternatively the comment can be enclosed by /\* and \*/. Write a sed command which transforms the // comments to the enclosed ones.

A screenshot of a computer screen

Description automatically generated

1. Print alternative lines (line1,3,5…)

A screenshot of a computer screen

Description automatically generated

1. Change the letters "dog" to "HORSE" everywhere it occurs on all lines.

A computer screen shot of a computer code

Description automatically generated

1. Change all occurrences of the letters "Man" at the beginning of a line to "Person".

A screen shot of a computer

Description automatically generated

1. Change all occurrences of "stick" followed by any punctuation at the end of a line to "Stick.". (The punctuation is replaced by a period.)

A screenshot of a computer screen

Description automatically generated

1. Change all occurrences of "Dog" or "dog" to "COW".

A screenshot of a computer screen

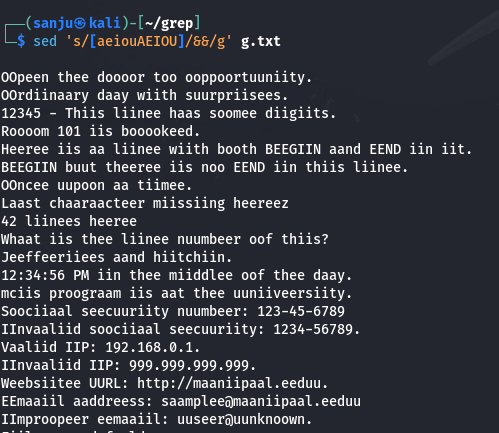
Description automatically generated

1. Change all Canadian or American spellings of colour (color) to "Color".

A screenshot of a computer

Description automatically generated

1. Double all vowels in every word on every line.



1. Triple the amount of space between every word.

A computer screen shot of a computer code

Description automatically generated

1. Find and print lines that contain "dog" followed by any number of digits then "cat".

A computer code with text

Description automatically generated

1. Find and print lines that contain the letters "dog" followed anywhere by the letters "cat".

A computer code with white text

Description automatically generated

1. Change all occurrences of one or more digits to the single word "NUMBER".

A screenshot of a computer

Description automatically generated

1. Replace all occurrences of one or more blanks with a single blank.

A computer screen shot of a computer error

Description automatically generated

1. Replace all occurrences of one or more tabs or blanks with a single blank.

A screenshot of a computer screen

Description automatically generated

1. Remove the first 8 characters from every line.

A screen shot of a computer

Description automatically generated

1. Remove all leading blanks or tabs from all lines.

A screenshot of a computer screen

Description automatically generated

1. Remove all trailing blanks or tabs from all lines.

A computer screen shot of a computer code

Description automatically generated

1. Replace all tab characters with eight spaces.

A screen shot of a computer

Description automatically generated

1. Change all punctuation so that the sentence period lies outside of the closing double quote, e.g. "Hello there." becomes "Hello there".

A screenshot of a computer program

Description automatically generated

1. Remove everything leading up to and including the last blank on each line.

A screen shot of a computer code

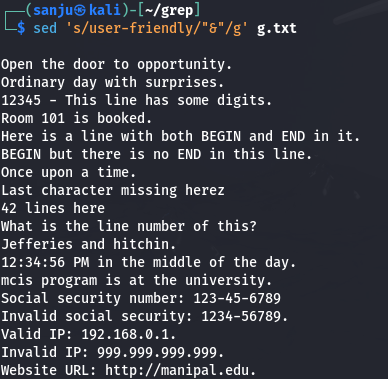
Description automatically generated

1. Remove everything including and after the first blank on each line.

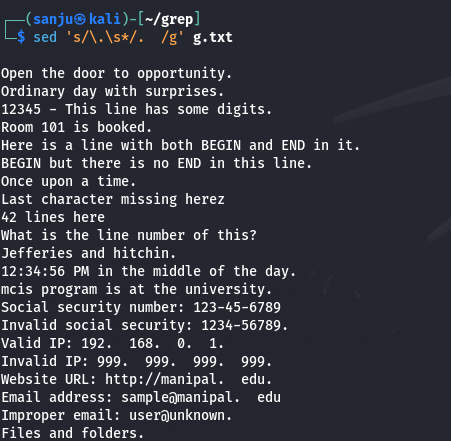
A screen shot of a computer

Description automatically generated

1. Put double quotes around every occurrence of the phrase "user-friendly".



1. Add an extra blank after every period at the end of a sentence.



1. Make sure that every period at the end of a sentence is followed by exactly two blanks.

A screen shot of a computer

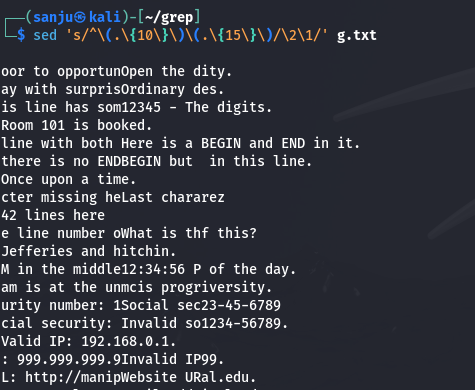
Description automatically generated

1. Truncate every line to ten characters.

A screenshot of a computer screen

Description automatically generated

1. Exchange the first 10 characters with the next 15 characters on every line.



1. Exchange the first number with the second number on every line.

A screenshot of a computer screen

Description automatically generated

1. Remove all leading zeroes from the first number on each line. Don't mishandle single digit zeroes.

A screenshot of a computer program

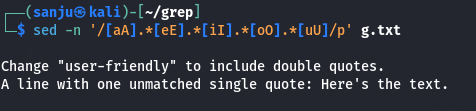
Description automatically generated

1. Find and print lines that contain all the vowels in alphabetical order, a before e before i before o before u. Test using /usr/dict/words.

A black background with white text

Description automatically generated

1. Find and print lines that contain all the vowels in any order. Test using /usr/dict/words.



1. Change all occurrences of one or more digits surrounded by spaces to the word "NUMBER" also surrounded by spaces.

A screenshot of a computer screen

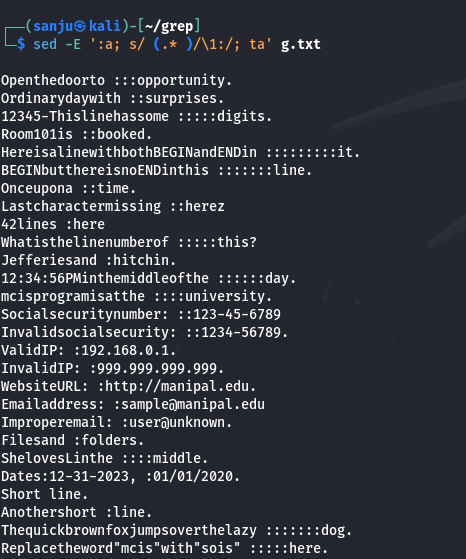
Description automatically generated

1. Change only the second occurrence of a single blank to a colon in each line.

A computer screen shot of a program

Description automatically generated

1. Change the only the second-to-last single blank to a colon in each line.



1. Change only the second occurrence of a string of one or more blanks to a colon in each line.

A screen shot of a computer

Description automatically generated

1. Change only the second-to-last occurrence of a string of one or more blanks to a colon in each line.



1. Remove all occurrences of HTML tags whose open and closing angle brackets are on the same line (e.g. <BR>, <TABLE>, <A HREF="...">, etc.). Remove all of them, not just the first ones.

A screenshot of a computer program

Description automatically generated

1. Remove everything on every line that appears between double quotes, leaving only the quotes. (Example: a "bcd" efg "h i" j --> a "" efg "" j ) Handle empty strings (adjacent quotes) correctly

A screenshot of a computer screen

Description automatically generated

1. Find lines that contain only one single quote character (an unmatched quote).

A black background with white text and colorful letters

Description automatically generated

1. Put double quotes around every occurrence of the phrase "user-friendly", unless the phrase already has double quotes around it.

A computer screen shot of a computer code

Description automatically generated

1. Find all numbers prefixed by a dollar sign, remove the dollar sign, and suffix the number with "CDN", e.g. $123.45 becomes 123.45CDN. Now do the reverse.

A computer screen shot of a computer code

Description automatically generated

1. Find all numbers with periods separating decimals and change the periods to commas, e.g. 123.45 becomes 123,45. Now do the reverse.

A computer screen shot of a code

Description automatically generated

1. Find all numbers with commas separating sets of three digits and change all the commas to spaces, e.g. 1,234,567.23 becomes 1 234 567.23. (You may assume the only use of a comma immediately followed by three digits is as a separator.)

A screenshot of a computer program

Description automatically generated

1. Locate common misspellings and mistypings of "@college.com" and fix them all. (e.g. fix manipal.edu, etc.)

A computer screen shot of a computer code

Description automatically generated

1. Remove either single or double quotes from around all strings of one or more digits, e.g. "10" or '10' become just 10. Now do the reverse (add quotes to all numbers).

A computer screen with text

Description automatically generated

1. Locate hexadecimal numbers having the form "0xA0FF2375C3" and prefix them with the string "(HEX:)", e.g. 0xDEAD would appear as (HEX:)0xDEAD and 0xBEAD00BEAD00 would appear as (HEX:)0xBEAD00BEAD00. Now do the reverse (remove the prefixes).

A screen shot of a computer

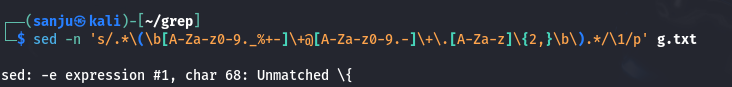
Description automatically generated

1. Use a single regular expression to change every occurrence of the word "dog" to be "dog-eat-dog" and "cat" to be "cat-eat-cat". Now do the reverse.

A computer screen shot of a computer code

Description automatically generated

1. Produce a plain list of mail addresses and home pages for everyone with an account on this system.



76. Write a script that will perform a simple substitution on the contents of each of the files given on the command line, e.g. $ ./script 's/dog/cat/g' \*.txt

A computer screen shot of a computer code

Description automatically generated

1. Have every new sentence in a document start at the beginning of a line. (Insert newline characters at the end of every sentence.)

A computer screen shot of a computer code

Description automatically generated

1. Find and print lines where all vowels are in strict alphabetical order, i.e. no e precedes an a, no i precedes an e, no o precedes an i, etc. All vowels that appear are in alphabetical order in the input, from left to right. Test your expression on /usr/dict/words.

A screen shot of a computer

Description automatically generated

1. Change the second and all subsequent occurrences of one or more blanks to single blanks. (The first occurrence of a string of blanks is untouched.)

A black background with white text

Description automatically generated

1. A file has a large number of columns of numbers separated by blanks. Change every second string of blanks to a colon. (A line of output might appear thus: 12 34:56 78:90 12) You don't know how many columns are in the input files.

A screenshot of a computer screen

Description automatically generated

1. Exchange the first number with the last number on every line.

