Homework #8

Using what you’ve learned so far in the course, specifically during week 9, answer the following

questions.

Question 1: List 4 functions of the sed editor?

Inserting text, appending text, writing to a file, write location

Question 2: **True** or False: The positional parameters $0, $1, etc. have the very similar meaning when

used with a gawk editor. Explain.

The gawk editor is similar because the positional parameters are used with $0 being the entirety of the text and $n. n being the number of the data entered.

Ex. $1: Data1 $2: data2 $3: data3

Question 3: List 14 different special characters within POSIX BER Regular Expression engine.

.\*[]^${}\+?|()

Question 4: Using the sed editor show two (2) different command line arguments that would read data

from a file myfile.txt and insert after the second line of text in mydata.txt.

sed ’/Line number 2/r myfile.txt’ mydata.txt

-bash-4.2$ sed '/Line number 2/r myfile.txt' mydata.txt

Line number 1

Line number 2

First new line

Second new line

Line number 3

Line number 4

sed ‘2r myfile.txt' data.txt

-bash-4.2$ sed '2r myfile.txt' mydata.txt

Line number 1

Line number 2

First new line

Second new line

Line number 3

Line number 4

myfile.txt

First new line

Second new line

mydata.txt

Line number 1

Line number 2

Line number 3

Line number 4

For questions 5-8 use the attached file (data.txt) as the input file. For each question submit the sed

command used and the resulting output. Note: Start with a fresh copy of data.txt for each question.

Question 5. Change the file to replace periods at the end of a sentence with exclamation points.

-bash-4.2$ sed 's/\./!/g/' data1.txt

Period ! Period ! Question? Question?

Jan 2 is Mary's Birthday and is 2010-01-13 and ccs@yy3!com is her email

and Feb 18 is Amy's birthday and her email is abc@yy2!com

An invalid date is 201-01-01

Good dates are 1999-01-22, 1998-02-05, and 1993-02-01

bad email bad@badone

"Bohemian Rhapsody"

Is this the real life?

Is this just fantasy?

Cought in a landslide,

No escape from reality!

Open your eyes,

Look up to the skies and see,

I'm just a poor boy, I need no sympathy,

Because I'm easy come, easy go,

Little high, little low,

Anyway the wind blows doesn't really matter to me, to me!

Question 6. Replace every occurrence of the word 'me' with 'you', but be sure that replace is not case

sensitive.

-bash-4.2$ sed 's/me/you/Ig' data1.txt

Period . Period. Question? Question?

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Question 7. Display only the dates, in the format YYYY-MM-DD, from the file. Print only the first

occurrence of this pattern on a line.

sed 's:[0-1][0-9]/[0-3][0-9]/::g' data1.txt

-bash-4.2$ sed 's:[0-1][0-9]/90-3][0-9]/::' data1.txt

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Question 8. Display email addresses, formatted as xxx@xxx.xxx, from the entire file. You only need to

pull one per line.

-bash-4.2$ sed "s/[^@ ]\*@[^@]@\.[^@ ]\*/xxx@xxx/xx/g" data1.txt

sed: -e expression #1, char 32: unknown option to `s'

-bash-4.2$ sed -r 's/^(.\*? |)[^@] + @[^ ]+/|1xxx@xxx.xxx/g' data1.txt

Period . Period. Question? Question?

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