**Instructions for Lab 5**

CS140U Extra Credit AWK Extra points Exercises.

Names: Evan Miller

Find the answers, using awk, for the following statements you will get extra points for each correct answer. Points will be given only if 100% correct. These awk commands are just one line long each.

DO NOT SHARE YOUR ANSWERS, THIS IS EXTRA CREDIT, WHICH MEANS INDIVIDUAL EFFORT (or groups of 2). Upload to the proper lab dropbox.

Hint: you may consult your notes and the Web if necessary.

You will be doing your awk searches on a file called **longfile** and **winelist. To obtain these files use the command:**

**yourid@syccuxfs01:~> cp ~wmorales/awkexercise/longfile ~**

**and**

**yourid@syccuxfs01:~> cp ~wmorales/awkexercise/winelist ~**

This will copy the two files that you will need for this exercise from your instructor’s directory to your home directory.

(3 points - easy)

1) Using awk, write the command that would print the line that contains the word "**selected**". This file has a lot of junk in it. So, you are just searching for the lines that contain the word “selected”. Your awk script will look into the file called **longfile** and once it finds all the lines that contain the word "**selected**" it will display the line. The output should be:

output: (There should be only one line)

***server, or at least to a "randomly" selected one of the servers covering***

YOUR AWK COMMAND: > **awk ‘/selected/’ longfile**

(10 points hard one)

2) Write the command that would find all lines that have an email address and place a label email = before the line in the file **longfile**

output will multiple lines similar to this one :

email = adnan\_mazhar@hotmail.com

email = aftab@klinkers.net

email = budz@logos.cy.net

email = info@continuum.net

email = jhamill@ibm.net

------------------- cut ------------------------

You would be searching for lines with the words from: to: Cc:, To:, cc: usually after these characters, there could be a good, valid e-mail address.

YOUR AWK COMMAND: > **awk '/[Ff]rom:/||/[Tt]o:/||/[Cc]c:/ {print "email= ", $0}' longfile**

(3 points - easy)

3) Write the awk command that would show the user wmorales (or yourself) that is online (you have to use a pipe)

Output, depending on the system, would be similar to:

wmorales pts/37 10.32.9.93 13:58 1.00s 0.15s 0.10s w

YOUR AWK COMMAND: **> w | awk ‘/evan.miller/’**

(10 points hard one) -

4) finger or who the users on our system that have the letter r in their **first name, or last name**, but nowhere else. Note also that the r can be r or R.

Outcyrus.rice pts/21 2017-10-23 12:38 (jamess-iphone-2.wifi.pcc.edu)

tina.olsgaard pts/29 2017-10-23 12:41 (174-25-110-78.ptld.qwest.net)

rachel.benes pts/30 2017-10-23 12:54 (laptop-2j35sntl.wifi.pcc.edu)

rachel.benes pts/33 2017-10-23 13:43 (laptop-2j35sntl.wifi.pcc.edu)

jarod.morrow pts/35 2017-10-23 12:54 (sytc310-08.ad.pcc.edu)

wmorales pts/37 2017-10-23 13:58 (10.32.9.93)put would be similar to:

----------------------- cut ------------------

**note**: the letter r or R has to appear either in their first name or last name only, not on the name of the machine that they are using if it happen to have r in it.

YOUR AWK COMMAND: **> who | awk '$1 ~ /[rR]/ {printf "%-20s %s\t %s\t %s\t %s\n" , $1, $2, $3, $4, $5}'**

5) (3 points - easy)

from the file called winelist extract a list of wines that cost less than $7.00

output (it may be different depending the time you do it):

1977 6.99 Franciscan

1977 6.75 Alexander Valley

1977 5.99 Charles Krug

YOUR AWK COMMAND: **> awk '$2 < 7.00' winelist**

=~=~=~=~=~=~=~=~=~=~=~= PuTTY log 2018.05.02 17:51:46 =~=~=~=~=~=~=~=~=~=~=~=

login as: evan.miller

evan.miller@syccuxas01:~> ~> cp ~wmorales/awkexercise/longfile ~

evan.miller@syccuxas01:~> cp ~wmorales/awkexercise/winelist ~

evan.miller@syccuxas01:~> awk '/selected/' longfile

server, or at least to a "randomly" selected one of the servers covering

evan.miller@syccuxas01:~> awk '/[Ff}]rom:/\\\\\\||/[Tt]o:/||/[CCc]c;:/ {print "email= ",

$0}' longfile

email= From: "Linder, Jann/WDC" <jlinder@CH2M.com>

email= To: Mr Arlington Hewes <tpcadmin@info.tpc.int>

email= Cc: "tpc-rp@info.tpc.int" <tpc-pc@info.tpc.int>

email= > From:Mr Arlington Hewes [SMTP:tpcadmin@info.tpc.int]

email= > To:tpc-rp@info.tpc.int

email= From: The.Internet.People@usa.net

email= To: John Hamill <jhamill@ibm.net>

email= > From: The.Internet.People@usa.net <The.Internet.People@usa.net>

email= > To: john Hamil <jh@lan1.com.au>

email= From: "Paul Budden" <budz@logos.cy.net>

email= To: <The.Internet.People@usa.net>

email= Cc: <tpc-pc@info.tpc.int>

email= From: The.Internet.People@usa.net <The.Internet.People@usa.net>

email= To: John Hamill <jhamill@ibm.net>

email= Cc: tpc-pc@info.tpc.int <tpc-pc@info.tpc.int>

email= >> From: The.Internet.People@usa.net <The.Internet.People@usa.net>

email= >> To: john Hamil <jh@lan1.com.au>

email= From: "John Hamill" <jhamill@ibm.net>

email= To: "Paul Budden" <budz@logos.cy.net>,

email= Cc: <tpc-pc@info.tpc.int>

email= From: Mr. Arlington Hewes <tpcadmin@info.tpc.int>

email= To: Paul Budden <budz@logos.cy.net>

email= Cc: tpc-pc@info.tpc.int <tpc-pc@info.tpc.int>; jh@lan1.com.au

email= From: "jh" <jhamill@ibm.net>

email= To: "Paul Budden" <budz@logos.cy.net>,

email= Cc: <tpc-pc@info.tpc.int>

email= From: John Hamill <jhamill@ibm.net>

email= To: Paul Budden <budz@logos.cy.net>; Mr. Arlington Hewes

email= Cc: tpc-pc@info.tpc.int <tpc-pc@info.tpc.int>

email= >From: Mr. Arlington Hewes <tpcadmin@info.tpc.int>

email= >To: Paul Budden <budz@logos.cy.net>

email= >Cc: tpc-pc@info.tpc.int <tpc-pc@info.tpc.int>; jh@lan1.com.au

email= To: "jh" <jhamill@ibm.net>

email= Cc: tpc-pc@info.tpc.int

email= In-reply-to: Your message of "Wed, 07 Jan 1998 12:58:48 +1100."

email= From: "Mr. Arlington Hewes" <tpcadmin@info.tpc.int>

email= From: David Cunningham <omicron@jade.bc.ca>

email= To: tpc-pc@info.tpc.int

email= To: David Cunningham <omicron@jade.bc.ca>

email= cc: tpc-pc@info.tpc.int, sjoyce@virtualplanet.com

email= In-reply-to: Your message of "Thu, 08 Jan 1998 00:19:58 PST."

email= From: "Mr. Arlington Hewes" <tpcadmin@info.tpc.int>

email= From: David Cunningham <omicron@jade.bc.ca>

email= To: "Mr. Arlington Hewes" <tpcadmin@info.tpc.int>

email= From: "John Hamill" <jh@lan1.com.au>

email= To: "David Cunningham" <omicron@jade.bc.ca>,

email= Cc: <tpc-pc@info.tpc.int>, <sjoyce@virtualplanet.com>

email= From: Mr. Arlington Hewes <tpcadmin@info.tpc.int>

email= To: David Cunningham <omicron@jade.bc.ca>

email= Cc: tpc-pc@info.tpc.int <tpc-pc@info.tpc.int>; sjoyce@virtualplanet.com

email= From: "Adnan Mazhar" <adnan\_mazhar@hotmail.com>

email= To: tpc-pc@info.tpc.int

email= From: "Adnan Mazhar" <adnan\_mazhar@hotmail.com>

email= To: tpc-pc@info.tpc.int

email= >>From: "Mr. Arlington Hewes" <tpcadmin@info.tpc.int>

email= From: David Cunningham <omicron@jade.bc.ca>

email= To: tpc-pc@info.tpc.int

email= From: Richard Whitfield <RCW@megatrend.com.hk>

email= To: "'tpc-pc@info.tpc.int'" <tpc-pc@info.tpc.int>

email= From: David Cunningham <info@continuum.net>

email= To: tpc-pc@info.tpc.int

email= From: "mail-daemon" <null@continuum.net>

email= To: info@continuum.net

email= From: David Cunningham <info@continuum.net>

email= To: remote-printer.DAVID\_CUNNINGHAM@9.2.5.4.8.8.6.4.0.6.1.tpc.int

email= From: "Aftab A. Siddiqui" <aftab@klinkers.net>

email= Reply-To: aftab@klinkers.net

email= To: tpc-pc@info.tpc.int

email= From: Richard Whitfield <RCW@megatrend.com.hk>

email= To: "'tpc-pc@info.tpc.int'" <tpc-pc@info.tpc.int>

email= To: David Cunningham <info@continuum.net>

email= cc: tpc-pc@info.tpc.int

email= In-reply-to: Your message of "Wed, 21 Jan 1998 23:10:05 PST."

email= From: "Mr. Arlington Hewes" <tpcadmin@info.tpc.int>

email= From: David Cunningham <omicron@continuum.net>

email= To: tpc-pc@info.tpc.int

email= From: David Cunningham <omicron@continuum.net>

email= To: tpc-pc@info.tpc.int

email= > To: david cunningham

email= > From: David Cunningham <omicron@continuum.net>

email= From: David Cunningham <omicron@continuum.net>

email= To: tpc-pc@info.tpc.int

email= > To: david cunningham

email= > From: David Cunningham <omicron@continuum.net>

email= From: David Cunningham <omicron@continuum.net>

email= To: tpc-pc@info.tpc.int

email= From: Richard Whitfield <RCW@megatrend.com.hk>

email= To: "'tpc-pc@info.tpc.int'" <tpc-pc@info.tpc.int>

email= From: "John Hamill" <jhamill@ibm.net>

email= To: "Richard Whitfield" <RCW@megatrend.com.hk>, <tpc-pc@info.tpc.int>

email= From: "John Hamill" <jhamill@ibm.net>

email= To: "David Cunningham" <omicron@continuum.net>, <tpc-pc@info.tpc.int>

email= > From: David Cunningham <omicron@continuum.net>

email= > To: tpc-pc@info.tpc.int

evan.miller@syccuxas01:~> w | awk '/evan.miller/'

evan.mil pts/30 static-50-53-5-7 17:52 5.00s 0.08s 0.00s sshd: evan.miller [priv]

evan.miller@syccuxas01:~> w | awk '/wmorales/'

evan.miller@syccuxas01:~> who | awk '$1 ~ /[rR]/ {printf "%-20s %s\t %s\t %s\t %

s\n" , $1, $2, $3, $4, $5}'

nathan.aguilar pts/0 2018-05-02 15:53 (c-71-59-139-8.hsd1.or.comcast.net)

jonas.persson pts/3 2018-05-02 18:00 (rc07112-13.ad.pcc.edu)

joshua.wolsborn pts/4 2018-05-02 18:07 (137.53.249.129)

daniel.brewer1 pts/7 2018-05-02 17:31 (rc07227-01.ad.pcc.edu)

christopher.duffens pts/10 2018-05-02 13:15 (laptop-79k8r88r.wifi.pcc.edu)

krista.bourgeois pts/13 2018-05-02 17:51 (kristas-macbook.wifi.pcc.edu)

andrew.niven pts/14 2018-05-02 15:58 (static-50-53-167-197.bvtn.or.frontiernet.net)

taylor.barnard pts/18 2018-05-02 15:15 (c-24-20-81-117.hsd1.or.comcast.net)

john.strenio pts/20 2018-05-02 15:07 (c-71-193-234-197.hsd1.or.comcast.net)

alexander.larue pts/24 2018-05-02 17:39 (75.172.142.126)

hailey.aldinger pts/25 2018-05-02 17:52 (c-67-160-157-44.hsd1.or.comcast.net)

nick.robinson pts/27 2018-05-02 18:07 (rc07227-26.ad.pcc.edu)

andrew.niven pts/28 2018-05-02 15:58 (static-50-53-167-197.bvtn.or.frontiernet.net)

ryan.dodson pts/29 2018-05-02 17:13 (c-67-171-177-242.hsd1.or.comcast.net)

evan.miller pts/30 2018-05-02 17:52 (static-50-53-5-75.bvtn.or.frontiernet.net)

ryan.dodson pts/32 2018-05-02 17:16 (c-67-171-177-242.hsd1.or.comcast.net)

noor.alabdalaali pts/33 2018-05-02 16:09 (c-71-59-136-40.hsd1.or.comcast.net)

forest.hoover pts/34 2018-05-02 16:07 (24.22.47.157)

chandler.campbell pts/36 2018-05-02 17:55 (10.31.9.52)

brian.raimundodiaz pts/38 2018-05-02 17:57 (108.161.26.69)

bradley.hopper pts/41 2018-05-02 17:59 (desktop-kvbiqvp.wifi.pcc.edu)

cindy.martin1 pts/42 2018-05-02 17:55 (c-71-59-136-69.hsd1.or.comcast.net)

mark.garvey pts/44 2018-05-02 17:55 (10.31.9.167)

chandler.campbell pts/46 2018-05-02 17:55 (10.31.9.52)

alexander.larue pts/49 2018-05-02 17:56 (75.172.142.126)

brooks.russell pts/51 2018-05-02 17:56 (rc07227-12.ad.pcc.edu)

aidan.reidel pts/52 2018-05-02 17:57 (10.31.9.155)

aidan.reidel pts/53 2018-05-02 17:57 (10.31.9.155)

james.brady5 pts/54 2018-05-02 17:57 (103.sub-174-224-13.myvzw.com)

patrick.oconnell2 pts/56 2018-05-02 17:57 (rc07227-16.ad.pcc.edu)

christopher.partridge pts/58 2018-05-02 17:58 (rc07227-25.ad.pcc.edu)

xinru.lu pts/59 2018-05-02 17:59 (desktop-krgnskq.wifi.pcc.edu)

deborah.neft pts/60 2018-05-02 17:59 (rc07112i7907.ad.pcc.edu)

connor.robetorye pts/62 2018-05-02 18:02 (10.31.9.54)

christopher.partridge pts/63 2018-05-02 18:03 (rc07227-25.ad.pcc.edu)

wade.israel pts/65 2018-05-02 18:06 (c-73-67-232-46.hsd1.or.comcast.net)

bradley.hopper pts/66 2018-05-02 18:05 (rc07227-28.ad.pcc.edu)

orlando.cerralta pts/67 2018-05-02 18:06 (static-50-53-1-185.bvtn.or.frontiernet.net)

evan.miller@syccuxas01:~> awk '$2 < 7.00' winelist

19775.99Charles Krug

19676.75Alexander Valley

19776.99Franciscan

19815.44Cheap wine

19994.99Madeira wine

evan.miller@syccuxas01:~> exit

logout