## CIS 90 - Spring 2012 - TEST 3 - 30 points

Timed Test (2 hours 50 minutes)
10 questions

1	extra	credit	question

Honor Code: This test is open book, open notes, and open computer. HOWEVER, you must work alone. You may not share answers. You may not receive or give assistance to others.
Name:
<u>Download</u> and <u>save</u> this test PDF to your computer. Then fill out the downloaded PDF, save it and email it as an attachment to <b>risimms@cabrillo.edu</b> using your regular (non-Opus) email. Please cc: yourself and verify you actually sent a non-blank, completed test to be graded.
Everyone should submit their test (completed or not) by the end of exam period.
Highlighted text differs from practice test
Note to Mac users:  Make sure Adobe Reader doesn't strip preceding /'s from your answers in saved PDF file.
Note to instructor: Add borabora file on Sun Print spool files on Sun Add test03-broken script to class depot directory on Sun
Navigate and Manage the UNIX/Linux File System Automate and schedule tasks Customize the shell environment
Part 1 – Use Sun (a Fedora Linux system) in VLab for the following questions (3 points each)
Login to Sun, using your own username and VLab password:  • Use Putty from any of the classroom stations
[Q1] What is Benji's favorite character on Star Trek? To find out, you need to add the /usr/local/bin/test03 directory to your path on Sun, run borabora and send it a SIGHUP signal.
[A1]
[Q2] There are two files buried in /etc on Sun that contain "me gusta UNIX". What are the last

modification dates (month and day) of these two files?

[Q3] V	Vhich user owns the files you found in Q2 above?
[A3] _	
[Q4] C	on Sun there is a file named <i>passwd</i> in the <i>/etc</i> directory. What is the absolute pathname of this
f	le?
[A4] _	
netwo chang •	
•	Add the following lines to the end of your smb.conf file:  [depot]  comment = Public files on Sun  path = /var/shares/depot  read only = yes  guest ok = yes
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[Q6]	On sun, exan	nine the print queue and	DELETE all prin	t jobs that belong to	you. Next, what is the
	startup shell	of the user who has file "	' <mark>PumpkinHead</mark> '	" queued to print?	

[A6]			

Benji is having trouble getting his script below working. He has two syntax errors and one logic error which he needs your help to find and fix. He put a copy in the /home/cis90/depot directory on Opus.

```
/home/cis90/simben $ cat ../depot/test03-broken
#!/bin/bash
# Show information about random file (or directory)
   Benji Simms
   Spring 2012
# Clear screen, start in user's home directory
clear, cd
echo "I'm going to to pick a random file from the file tree for you"
read -p "Ready? (press Enter to continue)"
# Make a list of all files and select one randomly
find / > allfiles$$ 2> /dev/null  # Make list of filenames
numFiles=`cat allfiles$$ | wc -1`  # Count them
numFiles=`cat allfiles$$ | wc -l`
                                         # Count them
let "random %= numFiles"
                                         # Divide by numFiles save
   remainder
file=`sed -n ${random}p allfiles$$`
                                         # print random line of filename
   list
# Show random file to user
echo; echo File $random of $numFiles is:
echo $file
# Show additional information about the file selected
echo; echo "Now I'm going to give your some more information on this file"
read -p "Ready? (press Enter to continue)"
directory=`dirname $file`
filename=`basename $file`
description=`file -b $file`
inode=`ls -il $file | cut -f1 -d" "`
echo; echo "Filename is: $filename
echo "In directory: " $directory
echo "Description: " $description
echo "Inode: " $inode
# Clean up temp files (note $$ is the PID number)
rm allfiles$$
exit
```

[Q7] What are the two syntax errors in Benji's script?

[8A]	
	Hint: fix both syntax errors then keep running script till you spot the logic error)
Part	2 – Use Opus (a Red Hat Linux system) for the following questions
[Q9]	On Opus, schedule a job to run at exactly 04:23 AM tomorrow that emails me a copy of your favorite poem. Cc: yourself and make the email subject be the name of the poem. What command will confirm this job has been scheduled?
[A9]	
	(I will check your answer above and check that the emailed poem was sent at the correct time)
[Q10	On Opus, how could you permanently modify your shell environment so that when you typed checkmine, it would display just your files in the /home/rsimms/turnin directory?
[A10	]

## Extra Credit (3 points)

Fix Benji's script above on Sun and **scp** it to the /home/rsimms/turnin directory on Opus, naming it test03-extra.\$LOGNAME

## Wrap up

- Make sure you have deleted all print jobs on Sun. Each time you log into Sun again you will need to do this again!
- Use your new **show** command on Opus to validate you turned in files for Q5 and Extra Credit.
- Please provide your feedback on this course by taking a short, four question online survey at: http://www.surveymonkey.com/s/3NGPBGM
- Have a great break!