## CIS 90 - Test 3 - Fall 2010

30 points + 10 points extra credit (each question worth 2 points)

Honor Code: This test is open book, open notes, and open computer. The one restriction is that you must work alone and answer all test questions by yourself. You may not give or receive help from others.
(name)(type your name to indicate your agreement to abide by the honor code above)
(type your name to indicate your agreement to abide by the honor code above)
When finished, email your completed test to: <u>risimms@cabrillo.edu</u>
The deadline to email your test is Midnight tonight. Tests emailed after the deadline will not be accepted.
1) What complete command was used to produce this output?
rochajua simmsben jimg rsimms root root
<pre># users=6 /home/cis90/simmsben \$</pre>
(q1)
2) What command was used to produce this output?
-bash: iptables: command not found /home/cis90/simmsben \$
(q2)
3) You have received an email from Rich on Opus. What is Benji's favorite food?
(d3)
4) What is the absolute pathname for the /etc/passwd file?
(q4)
5) A UNIX file has three elements. Two of the elements are the name and the data. What is the third element?
(q5)
6) There is a <i>dogs</i> directory in the <i>/home/rsimms</i> directory on Opus. Inside that directory are more directories and files. You may wish to explore that directory with the <b>tree</b> and/or <b>Is</b> commands.
From your home directory, what complete command, using the three meta-characters [, ], and *, would copy just the Hamlet and Romeo files to your home directory?
(q6)

7) Create a file in your home directory named <i>lassie</i> .
<ul> <li>What complete command would set the permissions on <i>lassie</i> so that:</li> <li>you have only read &amp; write permissions,</li> <li>group users have only read permission,</li> <li>and everyone else have no permissions whatsoever?</li> </ul>
(q7)
8) There is a <i>dogs</i> directory in the <i>/home/rsimms</i> directory on Opus. Inside that directory are more directories and files. You may wish to explore that directory with the <b>tree</b> and/or <b>Is</b> commands.
Go through all the files in the <i>dogs</i> directory (and its sub-directories) and count the number of lines containing the word cat. How many lines contain the word cat?
( q8 )
<ul> <li>9) Using all of the following:</li> <li>a) The echo command using only arithmetic expressions as argument(s)</li> <li>b) The bc command</li> <li>c) A   (pipe)</li> <li>d) Some type of redirection</li> </ul>
What command, using all the elements above, would output "Runtime error (func=(main), adr=5): Divide by zero" to a file named <i>errors</i> ?
(q9)
10) Benji has a small problem. He has run the <b>app</b> program in one terminal and it's no longer responding. He wants to kill it but can't remember how. In his second terminal he displays his current processes:
/home/cis90/simmsben \$ ps -u simmsben PID TTY TIME CMD 24093 ? 00:00:00 sshd 24094 pts/7 00:00:00 bash 25463 pts/7 00:00:00 app 25764 ? 00:00:00 sshd 25765 pts/1 00:00:00 bash 25810 pts/7 00:00:00 sleep 25811 pts/1 00:00:00 ps

What command should Benji use to send a SIGKILL signal to his **app** process?

/home/cis90/simmsben \$

(q10)\_\_\_\_\_

- 11) Copy the file /etc/samba/smb.conf to your home directory. This is the Samba service configuration file. We are going to practice modifying this file to allow Opus users to share files on the network with Windows computers. Edit your copy of the smb.conf file with vi and make the following changes:
  - Find the line containing: workgroup = MYGROUP and change MYGROUP to WORKGROUP
  - Find the line containing: server string = Samba Server Version %v and change Samba Server Version %v to OPUS File Server %v
  - Add the following lines to the end of your smb.conf file:

[depot]
comment = Public files on Opus
path = /var/shares/depot
read only = yes
guest ok = yes

Save your changes and copy your modified *smb.conf* file to the *turnin* directory using:

cp smb.conf /home/rsimms/turnin/smb.conf.\$LOGNAME					
What <b>Is</b> command could you use to ve	erify your <i>sm</i> .	b.conf file was submitted correctly?			
(q11)					
		c/samba/, opened ports 137-139, 445 in the ers would be able to access files in a share			
12) Without making any changes to y been exported?	our shell env	vironment on Opus, has your UID variable			
(q12)					
13) Given the following command and home/cis90/simmsben \$ lpstat simmsben hplaser-578 simmsben simmsben	•	Sat 04 Dec 2010 02:09:45 PM PST Sat 04 Dec 2010 02:09:52 PM PST			
/home/cis90/simmsben \$ What complete <b>Iprm</b> command would one queued at 02:09:52 PM PST)?  (q13)	-	stop the printing of the larger file (the			
14) What <b>scp</b> command (for Linux or to recursively download all the files in home?	•	cp command (for Windows) could you use lirectory on Opus to your computer at			

<ul> <li>all the files in your home directory,</li> <li>all the files in the /home/cis90/bin directory,</li> <li>and all the files in the /home/cis90/answers directory</li> </ul>	
into a single tarball file in your home directory? This tarball should be named using your username with a .tar suffix.	our
(q15)	
16) [Extra credit] From the Flashcards:	
What command shows the name of the computer you are using??	
17) [Extra credit] From the Flashcards:	
What command would show the online manual page for the Is command?	
18) [Extra credit] From the Flashcards:	
What is an example command to read mail messages saved in the local mbox file?	
19) [Extra credit] From the Flashcards:	
What UNIX command prints your current working directory?	
20) [Extra credit] From the Flashcards:	
What echo command would show all filenames in the parent directory starting with a (q20)	p?

15) From the /home/cis90 directory, what **tar** command would you use to archive: