

CIS 90 – Practice Test 3 – Spring 2011

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

For this practice test you may work with others and use the forum to compare answers.

(name)_____

1) What would you type, to schedule making a backup copy of your myscript file (to myscript.bak), at 1:00AM?

(q1)a _____

(q1)b _____

(q1)c _____

(q1)d _____

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?

(q3)_____

4) What is the absolute pathname for the */etc/passwd* file?

(q4)_____

5) How could you permanently modify your shell environment so that when you typed **show**, you would see any files you had copied to the */home/rsimms/turnin* directory?

(q5)_____

6) There is a *dogs* directory in the */home/rsimms* directory on Opus. Inside that directory are more directories and files. You may wish to explore that directory with the **tree** and/or **ls** commands.

From your home directory, what complete command, using the bracket "[]" meta-characters, and the wildcard "*" metacharacter, would copy just the Hamlet and Romeo files to your home directory?

(q6)_____

7) Create a file in your home directory named *lassie*.

What complete command would set the permissions on *lassie* so that:

- you have only read & write permissions,
- group users have only read permission,
- and others have no permissions whatsoever?

(q7) _____

8) There is a *dogs* directory in the */home/rsimms* directory on Opus. Inside that directory are more directories and files. You may wish to explore that directory with the **tree** and/or **ls** commands.

Go through all the files in the *dogs* directory (and its sub-directories) and count the number of lines containing the word *cat*. How many lines contain the word *cat*? (**Don't** count other words, like "catch," that happen to contain the letters "cat")

(q8) _____

9) Using all of the following:

- The **echo** command using only arithmetic expressions as argument(s)
- The **bc** command
- A | (pipe)
- Some type of redirection

What command, using all the elements above, would output "Runtime error (func=(main), adr=5): Divide by zero" to a file named *errors*?

(q9) _____

10) Benji has a small problem. He has run the **app** 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
/home/cis90/simmsben $
```

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

(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 `ls` command could you use to verify your `smb.conf` file was submitted correctly?

(q11) _____

Note: If we had modified the actual `smb.conf` file in `/etc/samba/`, opened ports 137-139, 445 in the firewall and restarted the `smb` service, then Windows users would be able to access files in a share named `depot` on Opus.

12) Without making any changes to your shell environment on Opus, has your `UID` variable been exported?

(q12) _____

13) Given the following command and output:

```
/home/cis90/simmsben $ lpstat
hplaser-577          simmsben           10240   Sat 04 Dec 2010 02:09:45 PM PST
hplaser-578          simmsben           33792   Sat 04 Dec 2010 02:09:52 PM PST
/home/cis90/simmsben $
```

What complete `lprm` command would Benji use to stop the printing of the larger file (the one queued at 02:09:52 PM PST)?

(q13) _____

14) What `scp` command (for Linux or Mac) or `pscp` command (for Windows) could you use to recursively download all the files in your home directory on Opus to your computer at home?

(q14) _____

15) From the */home/cis900l* directory, what **tar** command would you use to archive:

- all the files in your home directory,
- all the files in the */home/cis900l/bin* directory,
- and all the files in the */home/cis900l/answers* directory

into a single tarball file in your home directory? This tarball should be named using your username with a .tar suffix.

(q15) _____

16) [Extra credit] From the Flashcards:

What command shows the name of the computer you are using?

(q16) _____

17) [Extra credit] From the Flashcards:

What command would show the online manual page for the ls command?

(q17) _____

18) [Extra credit] From the Flashcards:

What is an example command to read mail messages saved in the local mbox file?

(q18) _____

19) [Extra credit] From the Flashcards:

What UNIX command prints your current working directory?

(q19) _____

20) [Extra credit] From the Flashcards:

What echo command would show all filenames in the parent directory starting with a p?

(q20) _____