

**CIS 90 - Spring 2012 - PRACTICE TEST 1- 30 points**

**Honor Code:**

This is a practice test and you may work with others and use the forum. However on the real test you will not be able to work with or receive help from others.

**Name:** \_\_\_\_\_

Practice downloading and emailing the completed test to yourself as an attachment. On the real test you will email your filled-in test to the instructor. Make sure you can read the answers on the test after you have emailed it as an attachment.

**Note to instructor:**

Email to students for Q14  
Make Sun modifications  
Make Mr-Eko and Not-Opus VMs modifications

**Part 1 - These questions come from the online Flashcards (1 point each)**

[Q1] What command will show a hex dump of a binary data file?

[A1] \_\_\_\_\_

[Q2] What metacharacter allows you to put multiple commands on one line?

[A2] \_\_\_\_\_

[Q3] What are the three elements that make up a UNIX file?

[A3] \_\_\_\_\_

[Q4] What command shows the name of the computer you are using?

[A4] \_\_\_\_\_

[Q5] Is `/boot/grub/grub.conf` a relative or absolute path?

[A5] \_\_\_\_\_

**Part 2 – Use Sun, at IP address 172.30.4.18, to verify your answers to the following questions (1 point each)**

Login to Sun, using your own username and VLab password. Use Putty from any of the classroom or CIS Lab stations or the **ssh** command from any of the Kate or Not-Opus VMs in VLab. If you use VLab, be sure to reserve the VM first on Fang.

[Q6] On Sun, when you enter the **emanu** command, what is the absolute pathname of the file that ACTUALLY is loaded and run by the shell? (Hint: it is NOT in the /suspicious directory)

[A6] \_\_\_\_\_

[Q7] On Sun, change to the */etc/u* directory and keep descending into sub-directories until you can't go down any farther. There you will find some regular files. Which of these files contains exactly 128 words?

[A7] \_\_\_\_\_

[Q8] On Sun, is the **rumpelstiltskin** command on your path?

[A8] \_\_\_\_\_

If you used VLab to get to Sun then be sure and shutdown your VM when finished and remove your reservation from Fang so it is available for the next student.

**Part 3 – Use VLab to verify your answers to the following questions (1 point each)**

Use Fang to reserve a free Mr-Eko VM. Power on the Mr-Eko VM. Don't login yet.

[Q9] On Mr-Eko, type the keystrokes to change to virtual terminal tty1. If the previous user did not logout, then type **exit** to logout. Above the login prompt you will notice a text string enclosed in []'s. What is this text string?

[A9] \_\_\_\_\_

[Q10] On Mr-Eko, login as cis90. What is the inode number of the */etc* directory?

[A10] \_\_\_\_\_

When finished, type **exit** to log out, then change back to tty7 (graphics) and shutdown the VM. Delete your reservation on Fang so another student may answer these questions.

**Part 4 – Use Opus to verify your answers to the following questions (1 point each)**

[Q11] On Opus, enter the **tree -Z** command. Which program generates the error message?

[A11] \_\_\_\_\_

[Q12] What is the absolute pathname of the directory where the **bison** command resides?

[A12] \_\_\_\_\_

[Q13] What command option directs the **tree** command to list directories only?

[A13] \_\_\_\_\_

[Q14] Read your email on Opus. What is Benji's favorite food?

[A14] \_\_\_\_\_

[Q15] Calculate:  $(23^2 * 4 - 96) - \text{sqrt}(64)$

and email the answer to **rsimms** using the **mail** command.

[Q16] What is the **echo** command that would output "CIS 90 Students Rock" including the double quotes?

[A16] \_\_\_\_\_

[Q17] What is absolute pathname of */etc/passwd*?

[A17] \_\_\_\_\_

[Q18] What is the first directory on your path?

[A18] \_\_\_\_\_

[Q19] From your home directory, what single command, using an absolute path as an argument, would print the first 5 lines of the *NEWS* file in the */usr/share/doc/bc-1.06/* directory?

[A19] \_\_\_\_\_

[Q20] From your home directory, using a relative path and a filename expansion character, what command would you use to classify all files in your Yeats directory to check if they are text or binary files?

[A20] \_\_\_\_\_

[Q21] Of all the files represented by an argument of */usr/share/doc/\*/AUTHORS*, which is the largest?

[A21] \_\_\_\_\_

[Q22] What is the name of the biggest hidden file in simben90's home directory?

[A22] \_\_\_\_\_

[Q23] Of the regular files in the */home/cis90/depot/filetypes* directory, which is a MySQL table definition file?

[A23] \_\_\_\_\_

[Q24] With the following command line, how many options are being specified?

```
ls -lid -S /etc /boot /home/cis90
```

[A24] \_\_\_\_\_

[Q25] With the following command line, how many arguments are being specified?

```
ls -lid -S /etc /boot /home/cis90
```

[A25] \_\_\_\_\_

[Q26] With the following command line, how many arguments will be passed to the **ls** command to process?

```
ls -ilt /usr/bin/user[im]*
```

[A26] \_\_\_\_\_

[Q27] What file type is */bin/hostname*?

[A27] \_\_\_\_\_

[Q28] How many lines are in */etc/httpd/conf/httpd.conf* (the Apache configuration file)?

[A28] \_\_\_\_\_

[Q29] Which distribution of Linux is being run on Opus?

[A29] \_\_\_\_\_

[Q30] How many accounts (lines) are there in the */etc/passwd* file?

[A30] \_\_\_\_\_

### Extra credit

[Q31] Create a variable named `artist` and set its value to Van Gogh. On the same command line use the **echo** command to print the value of the `artist` variable (hint: use the metacharacter `";"`). What command line will do all that?

[A31] \_\_\_\_\_

[Q32] What command will make a prompt to show the current time and a \$, using no more than 11 keystrokes?

e.g. At 9:03AM the prompt would be: 09:03:00 \$

[A32] \_\_\_\_\_

[Q33] What command, besides **echo**, would produce the output below?

```
xxd V1.10 27oct98 by Juergen Weigert
```

[A33] \_\_\_\_\_

[Q34] Which shell program will be started for user guest (uid=506) when that user logs into Opus?

[A34] \_\_\_\_\_

[Q35] What complete command could display output such as the following, showing idle time and column headers for users currently logged in?

NAME	LINE	TIME	IDLE	PID	COMMENT
rsimms	pts/1	2011-03-15 08:23	.	24017	(dsl-10-78-126-19.dhcp.cruzter.com)
rsimms	pts/2	2011-03-15 07:44	03:41	23499	(dsl-10-78-126-19.dhcp.cruzter.com)
simmsben	pts/3	2011-03-15 08:33	00:04	24083	(dsl-10-78-126-19.dhcp.cruzter.com)
guest130	pts/4	2011-03-15 10:30	.	25354	(adsl-20-201-78-69.dsl.abclocal.net)
delfimik	pts/5	2011-03-15 11:37	.	26996	(adsl-30-27-59-11.dsl.abcglocal.net)
silvetyl	pts/6	2011-03-15 11:38	00:05	27194	(c-40-123-46-9.hsd1.ca.comster.net)
lopezjes	pts/7	2011-03-15 11:21	00:02	25937	(50-75-89-34-sfba.hfc.comster.net)
lopezjes	pts/8	2011-03-15 11:28	00:01	26119	(50-75-89-34-sfba.hfc.comster.net)
vasqucar	pts/9	2011-03-15 10:00	01:30	24903	(50-102-84-123.dhcp.ca.chart.com)

[A35] \_\_\_\_\_