

CIS 90 - Fall 2013 - TEST 1 - 30 points

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: _____

(Type your name to indicate your agreement to abide by the honor code above)

Instructions:

Download and save this test to your computer. Fill out the form using **Adobe Reader**, save it and email it as an attachment to **risimms@cabrillo.edu** using your regular (non-Opus) email.

Don't fill it out in your browser

Don't fill it out with MAC Preview

Please verify you actually sent a non-blank test
with complete answers to be graded!

Everyone should submit their test (completed or not) by the end of class.

If you need extra time, you can submit again by no later than 11:59PM. Only the last submittal will be graded.

Highlighted text indicates changes from the practice test.

Note to instructor:

Email to students for Q15
Make Sun-Hwa-II T1 modifications

Part 1 - Flashcards questions (1 point each)

[Q1] What command is used to show the location of a command in the path?

[A1] _____

[Q2] What command is used to concatenate and print one or more files?

[A2] _____

[Q3] What echo command would show all filenames in the working directory starting with S or B?

[A3] _____

[Q4] What two hidden files are in every UNIX directory?

[A4] _____

[Q5] In a long listing, what symbol in column 1 denotes symbolic link files?

[A5] _____

Part 2 - Sun-Hwa-II questions (1 point each)

From Opus, login to Sun-Hwa as follows: `ssh cislab\\$LOGNAME@sun-hwa-ii` and use your original Opus password.

[Q6] On Sun-Hwa-II, regarding the shell prompt, what is the text string printed by the shell to prompt you for a command?

[A6] _____

[Q7] On Sun-Hwa-II, what is the value of the PS1 variable?

[A7] _____

[Q8] On Sun-Hwa-II, determine which of the `jin` and `sayid` commands is on your path today. What is the `modification time and date` for the one that is on your path?

[A8] _____

[Q9] On Sun-Hwa-II, there is a file named `passwd` which resides in the `/etc` directory. What is the absolute pathname of this file?

[A9] _____

[Q10] On Sun-Hwa-II, what is the name of the file in */etc* whose size is 1752 bytes?

[A10] _____

[Q11] On Sun-Hwa-II, when the shell processes a `file /usr/bin/*ron*` command, how many arguments are provided to the `file` command when it runs?

[A11] _____

[Q12] On Sun-Hwa-II, what is the absolute pathname of the directory where the `alsamixer` command resides?

[A12] _____

[Q13] What option directs the `diff` command to `show files side-by-side in two columns`?

[A13] _____

[Q14] On Sun-Hwa-II, change to the `/var/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 17 words?

[A14] _____

exit from Sun-Hwa-II back to your Opus login session again

Part 3 - Opus questions (1 point each)

[Q15] Read your email on Opus. What is Benji's favorite `game`?

[A15] _____

[Q16] From your home directory, using a relative pathname and single filename expansion metacharacter, what command would `print the first line of all sonnet5 files belonging to students enrolled in CIS 90?`

[A16] _____

[Q17] Starting in `/u` and descending down to the deepest sub-folder, what is name of the file whose inode is `394684`?

[A17] _____

[Q18] Find the line in `/etc/passwd` for your account. Each field on that line is delimited by a colon (`:`). Which field (i.e. first, second, third, ... etc.) matches the output of `echo $HOME`?

[A18] _____

[Q19] Find where the `write` command resides on your path. What is the `size in bytes` of this command file?

[A19] _____

[Q20] Which files in the `/boot` directory on Opus are `Linux kernels`?

[A20] _____

[Q21] What program printed the error message below:

```
/home/cis90/simben $ lss bogus
-bash: lss: command not found
```

[A21] _____

[Q22] Of all the files represented by `/usr/share/doc/*/AUTHORS`, which has a modification date of `Mar 27, 2004`?

[A22] _____

[Q23] When the `head /usr/bin/[lady]*deb*` command is issued on Opus, what is the `third` argument the shell passes to the `head` command to process?

[A23] _____

[Q24] Determine the terminal device being used for your login session. What is the **absolute** path to this device file?

[A24] _____

[Q25] Calculate: $12 * (9^4 + \sqrt{289}) / 32 - 453$

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

[Q26] Looking at the who output below, **which login session has been running the longest?**

```
/home/cis90/simben $ who
rsimms pts/0      2013-10-07 15:06 (2001:470:82a6:1:ca2:4613:74f:7a1)
smimat90 pts/1     2013-10-07 13:55 (172.20.8.189)
bardeb90 pts/2     2013-10-07 13:57 (ip72-207-29-216.sd.sd.cox.net)
chejul90 pts/3     2013-10-07 11:36 (172.20.8.178)
bardeb90 pts/4     2013-10-07 14:50 (ip72-207-29-216.sd.sd.cox.net)
lamdav90 pts/7     2013-10-07 14:59 (c-50-131-196-235.hsd1.ca.comcast.net)
rsimms pts/8      2013-10-07 15:08 (2001:470:82a6:1:ca2:4613:74f:7a1)
simben90 pts/9     2013-10-07 15:10 (2001:470:82a6:1:ca2:4613:74f:7a1)
```

[A26] _____

[Q27] What is the inode number of the file `/bin/mail` is linked to?

[A27] _____

[Q28] How many lines are in `/usr/share/doc/nano-2.0.9/BUGS` (the **nano editor bug list**)?

[A28] _____

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

[A29] _____

[Q30] How many words total are in all your **Shakespeare sonnet** files?

[A30] _____

Extra credit

[Q31] Back on Sun-Hwa-II, the **uname** command has been compromised by forces on the island! What single command can you issue to fix this annoying behavior so you don't have to type name of the command backwards for it to work?

[A31] _____

[Q32] Of these commands: **uname**, **lspci**, **ls**, **git**, **uname** and **man**, which did **Richard Stallman** work on?

[A32] _____

[Q33] On Sun-Hwa-II, which shell program will be started for user **sawyer** (uid=**1235**) when that user logs into Sun-Hwa-II?

[A33] _____