## CIS 90 - Test 2 - Fall 2010

30 points + 10 points extra credit

Th mu	onor Code: is test is open book, open notes, and open computer. The one restriction is that you ust work alone and answer all test questions by yourself. You may not give or receive lp from others.
	pe your name to indicate your agreement to abide by the honor code above)
Wł	nen finished, email your completed test to: <u>risimms@cabrillo.edu</u>
	e deadline to email your test is Midnight tonight. Tests emailed after the deadline will not accepted.
Pa	art 1 – From the flash cards (2 points each)
1.	How many inodes are needed for two files hard linked to each other?
2.	Where are the permissions for a file kept?
3.	What command would set the permissions on the file dogs so that the owner would have full permissions, the group read and write, and no permissions for anyone else?
4.	What is added to a command to redirect standard error (stderr) to the bit bucket?
5.	What happens if you type this command? > mythesis
Pa	art 2 – Operational Questions (2 points each)
6.	What single command line would count the number of accounts in $/etc/passwd$ that use $/sbin/nologin$ as the shell?

7. If the contents of the file named states is:

Michigan

California

Ohio

New York

What is the result of doing the following command?

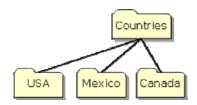
```
sort < states > states
```

- 8. Make a new directory that has a couple of files. Configure this directory so that:
  - you (the owner) cannot cd into it or remove its files, but you can list its files,
  - group users have no permissions,
  - and all others can **cd** into it, remove files from it, but not list files in it.

What are the permissions on this directory (in numeric form)?

9. What are the (numeric) permissions on the /usr/bin file with the inode rsimms emailed you?

10. What single command (no ";"s) creates a new directory named *Countries* containing three new sub-directories, named *USA*, *Mexico* and *Canada*?

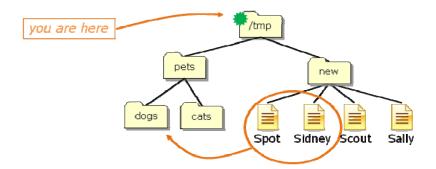


11. Benji messed up his edits directory. His long listings now look like the following:

```
/home/cis90/simmsben $ 1s -1 edits
total 0
?------ ? ? ? ? ? ? 1995.egg
?----- ? ? ? ? ? ? better_town
?----- ? ? ? ? ? ? small_town
?----- ? ? ? ? ? ? spellk
?----- ? ? ? ? ? ? text.err
?---- ? ? ? ? ? ? text.fxd
/home/cis90/simmsben $
```

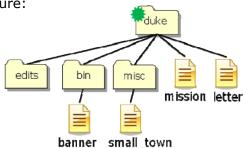
What command should Benji issue so he can see all his file information again?

## 12. Given this directory structure:



If your current working directory is /tmp, what single command using filename expansion characters would move just the files Spot and Sidney to the dogs directory?

13. Given this directory structure:



If your current working directory is *duke*, what single command (no ";"s) would copy the *mission* and *banner* files to the */tmp* directory?

- 14. From your home directory, what single command line using at least one filename expansion character and an environment variable, could be used to mail yourself and rsimms, a count of the misspelled words in all of Yeat's poems, with a subject of "Yeats"?
- 15. Civen the file commencions contains these two lines.
- 15. Given the file *expressions* contains these two lines:

5+5

9/0

What complete command using **bc** would input the math problems in *expressions*, **append** the calculated answers to the file *results* and write any errors to the file *errors*?

## Extra Credit (1 point each)

the bit bucket?

16. You have been hired as a parser. You will need to parse command lines and identify the command, options, arguments and any redirection. This includes doing any filename expansion. Parse the command below and complete the section that follows:

L! / - \ .				
argument(s):				
redirection:	redirected to			
17. On Opus, how ma tree?	ny directories and sub-directories are in the /lib portion of the			
18. <b>cd</b> into /home/cis	90/roddyduk, why does			
find –name t	reat?			
only find one trea	only find one treat file, yet  find -name 'treat?'			
find –name 't				
finds multiple trea	t files?			
	2 and the neuroississes on the file sindenally are my viville			
	2 and the permissions on the file <i>cinderella</i> are rww-, the nissions of the file <i>cinderella.bak</i> after doing the following com			

21. What are 2 files or directories on Opus that use inode number 1? Hint: see last slide in Lesson 10.

characters Hiro	<b>echo</b> commands and file redirection, how could you create a file name so it would contain the following lines?
Ando Sylar Nikki	
What com	mand would print only line 24 of the file purcery in your neems/Apon
directory?	mand would print only line 24 of the file <i>nursery</i> in your <i>poems/Anon</i> Hint: Use both <b>head</b> and <b>tail</b> .