CIS 90 - Practice Test 2 - Spring 2010 Name		
Pa	ert 1 – From the flash cards (2 points each)	
1.	What command could be used to update the access and modification times of a file?	
2.	A new file named <i>original</i> is created touch original link1 and link2 are hard links to original In original link1; In original link2 original is removed. What is the link count of <i>link1</i> ?	
3.	With a umask of 002 what permissions would newly created file have?	
4.	What is the numeric permission equivalent of rwxr-xr?	
5.	What redirection symbol is used to redirect standard input (stdin)?	
Pa	art 2 – Operational Questions (2 points each)	
6.	What single command line would count the number of accounts in $/etc/passwd$ that use $/bin/bash$ as the shell?	
7.	If the contents of the file named <i>characters</i> is: Hiro Ando Sylar Nikki	
	What is the result of doing the following command? sort characters > characters	

- 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 can cd into it, remove files from it, but not list files in it,
 - and all others have full permissions.

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

9. What are the permissions (in numeric form) on the file in /usr/bin with inode 1463202?

10. What complete command (no ";"s) creates a new directory named *spacecraft* containing two new sub-directories, named *skylab* and *apollo*?

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

/home/cis90/simmsben \$ Is -I games total 0 ?-----? ? ? ? ? gopher

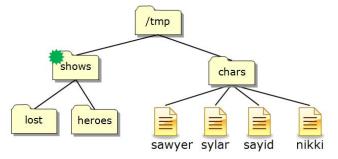
?-----?????? ; fetch ?-----????? ; tug-of-war

?-----?????? ? chase

/home/cis90/simmsben \$

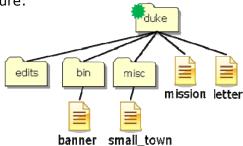
What command should Benji issue so he can see all his file information again?

12. Given this directory structure:



If your current working directory is *shows*/, what single command using filename expansion characters would move just the files *sawyer* and *sayid* to the *lost* directory?

13. Given this directory structure:



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

14. From your home directory, what single command line using at least one filenam	е
expansion character and an environment variable, could be used to mail yourse	lf the
misspelled words in Shakespeare's first, second and fourth sonnets with a subjection	ct of
"Billy's booboos"?	

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)

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:

ls -l /usr/share/grub/i386*/sta??[12] 2> /dev/null

command: option(s):		
argument(s):		
redirection:	redirected to	

17.	On Opus, how many directories and sub-directories are in the /etc/ portion of the file tree that you have access to?
18.	cd into /home/cis90/roddyduk, why does
	find -name treat?
	only find one treat file, yet
	find -name 'treat?'
	finds multiple treat files?
19.	If the umask is 022 and the permissions on the file <i>cinderella</i> are r, then what would be the permissions of the file <i>cinderella.bak</i> after doing the following command? cp cinderella cinderella.bak
20.	What complete command (with no ";"s) counts all the files belonging to you on the system, places a sorted list of them in the file <i>allmine</i> , and redirects error messages to the bit bucket?
21.	What command would set these permissions, rwxr-x, on a file named <i>dogs</i> ?
22.	What complete one-liner command (with ";"s) creates a file named <i>hiro</i> , changes that file's group to be <i>users</i> , then removes read permissions for group users on the file?
23.	Using only echo commands and file redirection, how could you create a file named characters so it would contain the following lines? Hiro Ando Sylar

	What command would print only line 10 of the file <i>letter</i> in your home directory? Hint: pipe output from head into tail .
25.	What is the actual absolute pathname to the /etc/passwd file?