

[Q2] A new file named <i>original</i> is created (touch original) link1 and link2 are hard linked to <i>original</i> (In original link1; In original link2) original is removed. What is the link count of link1?
[A2]
[Q3] What complete command would create a symbolic link named accounts to /etc/passwd?
[A3]
[Q4] What command would remove read permission for the group on a directory named Frost?
[A4]
[Q5] Where are the permissions for a file kept?
[A5]
[Q6] What is the difference between? find / wc -l 2> /dev/null
and find / 2> /dev/null wc -l
[A6]
[Q7] Without x (execute) permission for a directory, is it possible to cd into it?
[47] Without x (exceute) permission for a uncertary, is to possible to earlies to:

[Q8] What redirection symbol can be used to append standard output (stdout) to the end of a file?
[A8]
[Q9] What command would set the permissions on the file <i>dogs</i> so that the owner would have full permissions, the group read and write, and no permissions for anyone else?
[A9]
Part 2 – Troubleshooting in Sun-Hwa (1 point each) Login to Sun-Hwa, using your own username and VLab password: ssh cislab\\\$LOGNAME@sun-hwa
[Q10] There is some trouble on the island today that you need to troubleshoot and repair. What exactly is the problem?
[A10]
[Q11] What command can be used to fix the problem on Sun-Hwa?
[A11]
[Q12] Was your fix a <u>permanent</u> fix on Sun-Hwa?
[A12]

[Q13] Benji needs your help. He created an *activities* directory on Sun-Hwa and added files for some of his favorite activities. Everything was fine until he started trying some of those new chmod commands he learned about in Lesson 7. Now, the long listings for his *activities* directory are full of ?'s and permission errors. He shows you the following output:

What single command should Benji use to enable him to do normal long listings again on his activities directory?

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	A13	1			
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Part 3 - Rock Collecting on Sun-Hwa (1 point each



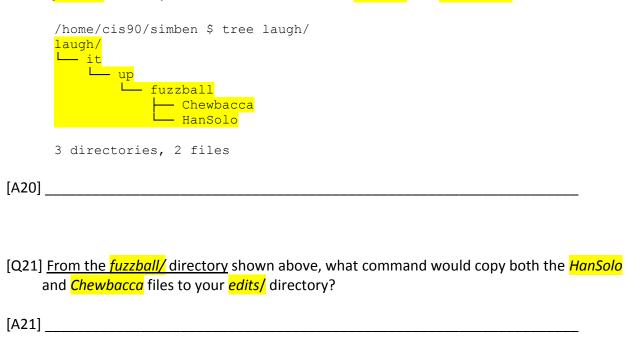
[Q14] On Sun-Hwa, a file named after a	<mark>sedimentary</mark>	rock was hidden somewhere in the	/opt
branch of the UNIX file tree. The r	ock file conta	ains your name (first and last) which	you
will see when you cat it out. What	is the absolu	te pathname of this file?	

[A14]	

[Q15] On Sun-Hwa, what are the permissions, in numerical format, on your sedimentary rock file?

[A15] ______

[Q20] What single command (no ;'s) from your home directory would you use to populate the fuzzball directory above with two files named HanSolo and Chewbacca?



[Q22] <u>From your home directory</u>, what single command (no;'s) could you use to create a file named <u>MotorpsychoNightmare</u> containing "Well, by the dirt 'neath my nails" on the first line and "I guess he knew I wouldn't lie" on the second line in your <u>poems</u>/ directory? To check your command, cat out your new file which should match Benji's output EXACTLY:

/home/cis90/simben \$ cat poems/MotorpsychoNightmare Well, by the dirt 'neath my nails I guess he knew I wouldn't lie

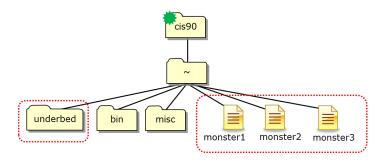
[A22]

[Q23] From your home directory, what single command (no;'s) could be used to remove all the files and directories created in Questions 19-22 above and nothing else?

This removal should include:

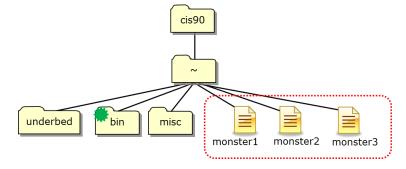
- *laugh/* directory in your home directory
- MotorpsychoNightmare in poems/
- HanSolo and Chewbacca in edits/

[Q24] From the directory with the * what command line, using a; to separate commands, create a directory named underbed and three files monster1, monster2 and monster3 in your home directory?



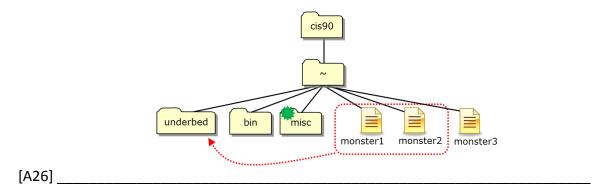
[A24]

[Q25] From the directory with the * what single command (no;'s) would set the permissions on the three monster files to be read/write/execute for the user, read/execute for group, and no permissions whatsoever for others?

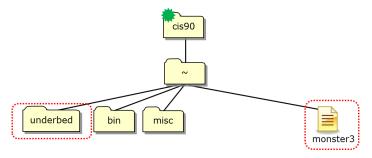


[A25]

[Q26] From the directory with the * what command would move monster1 and monster2 to the new underbed directory in your home directory?



[Q27]] From the directory with the * what single command (no;'s) would, without any interaction, remove only monster3, the files in the underbed directory and the underbed directory?



[A27]

[Q28] Given the file expressions contains these two lines:

/home/cis90/simben \$ cat expressions 1971+sqrt(10000)+2679+5 1/0

What complete command (no ;'s) using **bc** would:

- empty a file named results
- input the math problems in expressions,
- write the calculated answers to the file results
- send all errors to the bit bucket?

[A28]

[Q29] Benji has the following file in his home directory:
/home/cis90/simben \$ ls -1 torbellino -rw-rw-r 1 simben90 cis90 0 Apr 3 10:05 torbellino
If his umask value is 222 and he copies the <i>torbellino</i> file to <i>torbellino.bak</i> , what would the permissions be, in numerical form, on <i>torbellino.bak</i> ?
[A29]
 [Q30] What command would cause all future regular files to be created with: read and write permissions only for the owner read permission only for group read permission only for group
[A30]
Extra credit
[Q31] What are the permissions, in <u>numeric</u> format, on the write command?
[A31]

[Q32] On Sun-Hwa, what pipeline could you assemble that would use find, xargs, ls, cut and **sort** commands to make a list of the inodes and sizes for all the sedimentary rock files in opt? There should be no error messages and the list should be sorted by size. Your inode numbers may differ from the ones below but the sizes should match exactly: 282311 30 282303 31 282301 32 282306 32 282307 32 282319 32 274463 33 282314 33 282315 33 282300 34 282305 34 282308 34 282309 34 282320 34 282323 34 282302 35 282304 35 282312 35 282322 35 282310 36 282317 36 282324 36 282313 37 282316 37 282318 37 282321 38 282325 41 [A32] _____ [Q33] On Opus, cd into /home/cis90/simben why does: find -name *treat* 2< /dev/null only find one of the treat files, yet: find -name *trick* 2> /dev/null finds all the .trick files?