

30 points

1. 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 *allmine*, and redirects error messages to the bit bucket?

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2. Given the file *problems* contains:

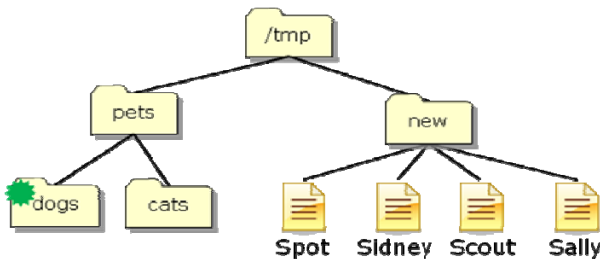
10+10

1/0

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

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3. Given this directory structure:



If your current working directory is *dogs*, what single command using filename expansion characters would move just the files *Scout* and *Sally* to the *dogs* directory ?

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4. What permission is lacking that prevents you from viewing */boot/grub/grub.conf*?

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5. What single command could be used to mail yourself the misspelled words in all of Shakespeare's sonnets with a subject of "To Review"?

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6. What is a program called when it is loaded into memory by the kernel?

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7. What system call is used to create a child process that is identical with the parent process except it has different PID?

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8. What command would show just the processes belonging to you?

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9. After issuing a **sleep 15** command, how would you suspend then resume that command in the same terminal session?

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10. How would you run two **sleep 20** commands in the background and then list both of the background jobs before they completed?

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11. What command shows the special keystrokes, including the keystroke used to suspend a command?

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12. After running the **app** program on Opus, what steps need to be taken for app to clean up and gracefully exit?

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13. After running the **app** program on Opus, what command will terminate the app process in a way that the process is not allowed to cleanup and gracefully exit?

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14. What command would email you a "Time for tea" message at teatime with the subject "Reminder"

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15. With the vi editor in insert mode, what keystrokes will save your work and exit?

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16. With the vi editor in command mode, what command will delete the next 10 lines?

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17. With the vi editor in command mode, what command will change to insert mode?

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18. With the vi editor in command mode, what command will copy the next five lines to the vi clipboard?

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19. What command would check the spelling of the text file *small\_town* and put any misspelled words in a file called *errors*?

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20. How would you set up a personal dictionary for the spell command to use and add the word *Benji*?

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21. What command will list all the environment variables?

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22. What commands create a variable named *light*, set its value to *brightest*, and make the variable available to child processes?

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23. What command would allow typing **woof** to perform the **who** command?

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24. What must be done so that the **woof** command described previously will be available to child shells and future login sessions?

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25. What are the names of the two script files used to setup a user's unique shell environment?

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26. What command adds */home/roddyduk/bin* to your path?

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27. The value of the variable `light` is set to "bright" (`light=bright`). If a script file contains:  
`light=dim`  
what is the value of `light` after running the script?

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28. The value of the variable `light` is set to "bright" (`light=bright`). If a script file contains:  
`light=dim`  
what is the value of `light` after sourcing the script with the **source** or `.` command?

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29. What command will show all the print jobs waiting to be printed?

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30. What command will delete a pending print job?

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31. (5 points) Write a short script named *color* that asks the user for a color, creates a file named with the color and the current date (.e.g. *blue-mm-dd-yyyy*), then appends the color to that file. Running the script would look like:

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$ color
Please give me a color: blue
$ ls blue*
blue-12-09-2008
$ cat blue*
blue
```

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