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Practice Final

The following files are located in /home/jason/

prime.sh

#!/bin/bash n=\$1 i=1 c=1while [\$i -le \$n]; do i=\$(expr \$i + 1)r=\$(expr \$n % \$i) if [\$r -eq 0]; then c = (expr \$c + 1)fi done if [\$c -eq 2]; then echo "Prime" else echo "Not Prime" fi

greek-figures.txt

Hades Hercules Jason Medea Cassandra Hercules

greek-figures-2.txt

Zeus Hercules Jason Medea Cassandra Hercules

budget.csv

May, \$1000, food June, \$2000, vacation July, \$3000, party August, \$66, concert

What is the Output of the following code given the above scripts and data files on the first page?

- 7. ls *.txt
- 8. cat greek-figures.txt | grep Hercules

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Write commands to complete the following tasks:	
1. List all of the processes running on the systems belonging to all users.	
2. Find out how much free RAM is on the machine.	
3. List all the files in /home/jason	
4. List all the files in /home/jason that are text files starting with the letter x or z	
5. Create an empty text file named being-and-nothingness.txt.	
6. Make the existing text file hello-world.sh empty without removing it from the	filesystem.
7. Append the sentence "Long live the king!" to the end of the file named roya	lty.txt
8. Print out all of the lines in the file Hamlet.txt where Ophelia occurrs.	
9. Set the permissions of all csv files in /home/jason so that only the user can rea everyone can execute them.	d and write to it but
10. Save the contents of the files one.txt, two.txt, and three.txt as one large fit that has the contents of all three files combined.	le named six.txt

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11. There is a process running on the machine that is taking up too much cpu. According process id is 42. Write a command to make this process stop running.	-
12. Print out what directly you are currently in.	
13. Remove all files that contain the word crap	
14 Check if you can connect to the server whose domain name is www.bmcc.cuny.ed	<u>u</u>
15. Print out the last few lines of the file located at /var/log/httpd/access.log	
16. List all available partitions and drives on the machine.	
17. Show how much hard drive space is left on each storage device	
18. Make a directory named my-masterpiece.	
19. Change the owner of the directory /home/jason/my-masterpiece to mede	a
20. Execute the file named hello-world.py using python3	
21. Get documentation for using the find command	

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22. Paste two copies of the file alien.txt beside each other horizontally in standard or	ıtput.
23. Remove the contents of the file /var/log/httpd/access.log without deleting the	e file.
24. Rename the file zeus.json to hercules.json	
25. Log into another Linux machine as the root user with ip address 10.150.214.88 usi	ng ssh .
26. print "This sentence is false" to the terminal	
27. List the current date.	
28. Display a calendar with the current date.	
29. Zip up the files five.txt, ten.txt and fifteen.txt into a file named thirty.zip	
30. Print out the contents of the PATH variable to standard output.	
31. Print information about your network interface (with your ip address) to standard of	output.
32. Download the file located at the url cheat.sh/ls using curl	

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33. Change your present directory to the root of the file system	
34. Change your present directory to your home directory	
35. Change your present directory to the parent directory of the directory you are curr	ently in
36. Open the contents of the file that represents the current directory in vi or emacs.	,
37. Temporarily assume root privileges and list the files in the /root directory	
38. Switch to the user hades	
39. Reset the password of the user oden	
40. Output the number of columns in your current terminal	
41. Output the number of rows in your current terminal	
42. Delete everything in the home directory of the user jason	
43. Copy the file unique.txt to a new file named common.txt	

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44. Change all of the occurrences of the word <i>hello</i> in the file named gr <i>goodbye</i> instead.	eetings.txt so that they say
45. Transmit the file /home/jason/medusa-head.txt from your located over the network at 10.150.214.88	cal machine to the machine
46. Sort the file class-roster.csv alphabetically	
47. Determine who you are logged in as	
48. Execute the script destroy-all-humans.sh and pass two it the na	mes of two people to destroy
49. Start the X Window server	
50. Write a line that could be added to the user <code>jason's</code> .bashrc file th SOS with the contents <code>Save me!</code> to your global variable space every ti	
51. List the names of all of the files in /home/jason including all of the	e hidden files
52. Install emacs on your machine using the package manager	
53. find the location of all files on your entire file system named waldo	.txt

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65. Restart the process httpd using systemctl	
66. Run the script memory-thief.sh in the background	
67. Take input from the user and store it into a variable named info	
68 Find the differences between the file winter-1 txt and winter-2 txt	

15. Where are running processes represented on the file system?

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Write a Script

Write a script file named swap-em.sh that swaps the name of two files. For instance, if there is a file named /home/sesame/bert.txt with the contents "Be Quiet!" and a file named /home/sesame/ernie.txt with the contents "Hi guys!", and a user types ./swap-em.sh bert.txt ernie.txt the file bert.txt will be renamed ernie.txt and the file ernie.txt will be renamed bert.txt