2.7.8 Practice Questions

Candidate: Ethan Bonavida (suborange)

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Score: 100% Passing Score: 80%

▼ Question 1: ✓ Correct

Which of the following commands sorts the combined contents of the wordlist1 and wordlist2 files and sends the results to both the screen and a file named sortedwordlist?

- cat /usr/wordlist1 >> /usr/wordlist2 | sort sortedwordlist
- cat /usr/wordlist1 /usr/wordlist2 | sort sortedwordlist
- cat /usr/wordlist1 /usr/wordlist2 | sort | tee sortedwordlist
 - cat /usr/wordlist1 /usr/wordlist2 | tee sortedwordlist

Explanation

The **cat /usr/wordlist1 /usr/wordlist2 | sort | tee sortedwordlist command** sorts the combined contents of the wordlist1 and wordlist2 files and sends the results to both the screen and a file named sortedwordlist.

The **cat /usr/wordlist1 /usr/wordlist2 | tee sortedwordlist** command does not perform a sort.

The **cat /usr/wordlist1 /usr/wordlist2 | sort sortedwordlist** command attempts to sort a file named **sortedwordlist** that, most likely, does not exist.

The **cat /usr/wordlist1** >> **/usr/wordlist2** | **sort sortedwordlist** command will append the contents of the wordlist1 file to the wordlist2 file and will attempt to sort a file named sortedwordlist that, most likely, does not exist.

References

- D 2.7.1 Redirection
- D 2.7.2 Piping
- 2.7.3 Use Redirection
- 2.7.4 Use Piping
- 2.7.5 Redirection and Piping Facts



2.7.6 Command Substitution

 $q_redir_pip_f_lp5_01.question.fex$

▼ Question 2:

✓ Correct

Which of the following describes the effects of the Is -I /usr/bin >> /tmp/list.txt command?



The contents of the /usr/bin directory are written to a file named /tmp/list.txt. Previous file contents are kept, and the new information is added at the end of the file.

- The contents of the /usr/bin directory are written to both the screen and to a file named /tmp/list.txt. Previous file contents are overwritten.
- The contents of the /usr/bin directory are written to a file named /tmp/list.txt. Previous file contents are be overwritten.
 - The contents of the /usr/bin directory are written to a file named /tmp/list.txt. Previous
- file contents are kept, and the new information is added at the beginning of the file.

Explanation

The >> operator redirects the output of a command to a file, appending the new information to the end of the file.

The file contents are not overwritten.

The new information is not added to the beginning of the file.

The contents of the **/**usr/bin directory are not written to the screen.

References

- 2.7.1 Redirection
- D 2.7.2 Piping
- 2.7.3 Use Redirection



2.7.5 Redirection and Piping Facts

2.7.6 Command Substitution

q_redir_pip_f_lp5_02.question.fex

▼ Question 3: ✓ Correct

Ann, a Linux script developer, is trying to debug a shell script that has the command **Is -s** in it. She suspects that an error is occurring, and she wants to send the results of the operation and any errors to a file named **~/Friday** in order to examine it later.

Which of the following commands should she use?

- Is -s > ~/Friday
- **⇒ (a)** Is -s &> ~/Friday
 - ls -s >> ~/Friday
 - Is -s < ~/Friday</p>

Explanation

The &> operator redirects both successful output (1) and error results (2) to the same file.

The &> ~/Friday construct is equivalent to 1> ~/Friday 2> &1 and 1> ~/Friday 2> ~/Friday.

The > operator only redirects the output.

The >> operator only redirects the output and appends the new information to the ~/Friday file.

The < operator passes the contents of the ~/Friday file to the **Is** command as input. In this case, the **Is** command will ignore the input.

References

- D 2.7.1 Redirection
- D 2.7.2 Piping
- 2.7.3 Use Redirection
- 2.7.4 Use Piping
- 2.7.5 Redirection and Piping Facts
- 2.7.6 Command Substitution

q_redir_pip_f_lp5_03.question.fex

▼ Question 4: ✓ Correct

Which of the following commands gives the same results as cat < turbo?

- cat 2> turbo
- cat turbo
 - cat 1> turbo
 - cat &> turbo

Explanation

Using the **turbo** file as an argument of the **cat** command causes the **turbo** file to be used as input. The < operator results in the same action. The contents of the **turbo** file are redirected to the **cat** command as input.

The 1> turbo construct writes the output of the cat command to the turbo file.

The 2> turbo construct writes any errors generated by the cat command to the turbo file.

The &> **turbo** construct writes both the output of the **cat** command and any errors generated by the **cat** command to the **turbo** file.

References

- D 2.7.1 Redirection
- D 2.7.2 Piping
- 2.7.3 Use Redirection
- 2.7.4 Use Piping
- 2.7.5 Redirection and Piping Facts
- 2.7.6 Command Substitution

q_redir_pip_f_lp5_04.question.fex

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Which of the following commands sorts the contents of the **wordlist1** and **wordlist2** files and sends the result to standard output?

- cat /usr/wordlist1 /usr/wordlist2 | sort
 - cat /usr/wordlist1 | /usr/wordlist2 | sort
 - cat /usr/wordlist1 > /usr/wordlist2 | sort
 - cat /usr/wordlist1 >> /usr/wordlist2 | tee

Explanation

The pipe operator (|) in the **cat /usr/wordlist1 /usr/wordlist2** | **sort** command sends the output from the cat command (a list of the contents of the wordlist1 and wordlist2 files) as input to the sort command. The sort command sorts the input and sends the result to standard output (usually the screen).

The **cat /usr/wordlist1 > /usr/wordlist2** construct overwrites the contents of the wordlist2 file with the contents of the wordflist1 file.

The cat /usr/wordlist1 | /usr/wordlist2 | sort command returns an error since the /user/wordlist file is not an executable file.

The cat /usr/wordlist1 >> /usr/wordlist2 | tee command appends the contents of the wordlist1 file to the contents of the wordflist2 file. The tee command requires a filename as an argument.

References

- D 2.7.1 Redirection
- D 2.7.2 Piping
- 2.7.3 Use Redirection
- 2.7.4 Use Piping
- 2.7.5 Redirection and Piping Facts
- 2.7.6 Command Substitution

q_redir_pip_f_lp5_05.question.fex

▼ Question 6: ✓ Correct				
Which command operator pipes the output of one command as the input of another command?				
Explanation				
The pipe () operator directs the output of one command into the input of another command.				
References				
D 2.7.1 Redirection				
D 2.7.2 Piping				
2.7.3 Use Redirection				
2.7.4 Use Piping				
2.7.5 Redirection and Piping Facts				
2.7.6 Command Substitution				
q_redir_pip_f_lp5_06.question.fex				

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▼ Question 7: ✓ Correct
Which command reads from standard input (stdin) and writes to both standard output (stdout) and a file?
tee
Explanation
The tee command reads from standard input (stdin) and writes to both standard output (stdout) and a file.
References
D 2.7.1 Redirection
D 2.7.2 Piping
2.7.3 Use Redirection
2.7.4 Use Piping
2.7.5 Redirection and Piping Facts
2.7.6 Command Substitution
q_redir_pip_f_lp5_07.question.fex

▼ Question 8: ✓ Correct

Joe, a bash script developer, is trying to debug a shell script named **myscript**. Which of the following commands would record the output of the script in a text file?

- myscript | testfile.txt
- myscript >> testfile.txt
 - myscript | echo | testfile.txt
 - echo myscript >> testfile.txt

Explanation

The **myscript** >> **testfile.txt** command uses the >> operator to redirect the output of the executed myscript script to a file named testfile.txt.

The **echo myscript >> testfile.txt** command appends the contents of the myscript file to the testfile.txt file.

The **myscript** | **testfile.txt** command pipes the output of a command as the input of another command (or shell script). In this case, testfile.txt is not likely to be an executable shell script.

The **echo** command within the **myscript | echo | testfile.txt** command does not echo the output form the myscript script because it does not read from stdin. Additionally, testfile.txt is not likely to be an executable shell script.

References

- 2.7.1 Redirection
- **D** 2.7.2 Piping
- 2.7.3 Use Redirection
- 2.7.4 Use Piping
- 2.7.5 Redirection and Piping Facts
- 2.7.6 Command Substitution

 $q_redir_pip_f_lp5_08. question. fex$

▼ Question 9: ✓ Correct

Tom, a shell script developer, knows that the **date +%A** command gives the current local weekday name (Sunday, Monday, Tuesday, ...).

Which of the following commands will copy the authentication log file, **/var/log/auth.log**, to a new file with a filename that includes the current local weekday name?

- xargs /var/log/auth.log ~/auth\$(date +%A).log
- cp /var/log/auth.log ~/auth\${date +%A}.log
- cp /var/log/auth.log ~/auth\$(date +%A).log
 - tee /var/log/auth.log > date +%A -log

Explanation

The **\$(date +%A)** operator performs a command substitution so that the new filename will include the current local weekday name.

The **\${date +%A}.log** operator attempts to substitute the contents of a variable.

The **tee** command is used to write output to both stdout and to a file.

The **xargs** command is used to divide large amounts of streamed output into smaller chunks to be used as arguments for another command.

References

- D 2.7.1 Redirection
- 2.7.2 Piping
- 2.7.3 Use Redirection
- 👿 2.7.4 Use Piping
- **□** 2.7.5 Redirection and Piping Facts
- 2.7.6 Command Substitution
- 14.2.2 Bash Shell Parameters, User Variables and Expansions
- 👿 14.2.5 Arrays and Expansions



|≔| 14.2.6 Shell Environments, Bash Variables and Parameters Facts

q_xargs_f_lp5_01.question.fex

▼ Question 10:



Which command overcomes the 128 KB shell command size restriction by breaking up long lists of arguments?

xargs



Explanation

The xargs command reads items from the standard input and breaks up long lists of arguments into smaller, usable chunks.

References



D 2.7.2 Piping

2.7.3 Use Redirection

2.7.4 Use Piping

2.7.5 Redirection and Piping Facts

D 2.7.6 Command Substitution

q_xargs_f_lp5_02.question.fex

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▼ Question 11: ✓ Correct		
Which of the following commands utilize command substitution? (Choose TWO.)		
echo -e "sort -r names.txt"		
myvar=`sort -r names.txt`		
myvar=\$(sort -r names.txt)		
myvar="echo 'sort -r names.txt'"		
Explanation		
myvar=`sort -r names.txt` and myvar=\$(sort -r names.txt) both provide command substitution. Enclosing a command within backticks (`) performs command substitution in the same way as the \$() operator.		
echo -e "sort -r names.txt" echoes the command to stdout.		
myvar="echo 'sort -r names.txt'" stores the following in the myvar variable: echo -e text stored in names.txt		
References		
D 2.7.6 Command Substitution		
D 14.2.2 Bash Shell Parameters, User Variables and Expansions		
14.2.5 Arrays and Expansions		
14.2.6 Shell Environments, Bash Variables and Parameters Facts		
q_xargs_f_lp5_backtick.question.fex		

▼ Question 12: ✓ Correct Which of the following commands stores the output of the **Is -a** command in a shell variable named allfiles? allfiles="ls -a" allfiles=\$((ls -a)) allfiles=\${ls -a} allfiles=\$(ls -a) allfiles="exec ls -a" **Explanation** allfiles=\$(Is -a) stores the output from the Is -a command in the shell variable allfiles. This is command substitution. allfiles=\$((ls -a)) stores the value of zero in the variable allfiles. **allfiles="exec Is -a"** stores the *exec Is -a* string in the variable allfiles. **allfiles="Is -a"** stores the *Is -a* string in the variable allfiles. allfiles=\${Is -a} utilizes command expansion and does not produce a command output. References 2.7.6 Command Substitution 14.2.2 Bash Shell Parameters, User Variables and Expansions 14.2.5 Arrays and Expansions 14.2.6 Shell Environments, Bash Variables and Parameters Facts

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