14.3.6 Practice Questions

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Date: 12/8/2022 9:07:12 pm • Time Spent: 01:17

Score: 100% Passing Score: 80%

▼ Question 1: ✓ Correct

Given the following bash script, what is the output if the user enters Kali?

```
#!/bin/bash
echo 'Which Linux distribution do you like? '
case $distro in
     ubuntu)
          echo "Ubuntu is based on Debian."
          ;;
     centos | rhel)
          echo "CentOS and RHEL are RPM based distributions."
          ;;
     windows)
          echo "That is not a Linux distribution."
          ;;
     *)
          echo "This is an unknown Linux Distribution."
          ;;
esac
```

- CentOS and RHEL are RPM-based distributions.
- Ubuntu is based on Debian.
- That is not a Linux distribution.
- This is an unknown Linux distribution.

Explanation

A case statement works well for testing two or more ways a condition could be evaluated. The case statement will check the input for a match. If no match is found, the catch all statement, represented by "*)", will be used. With user input of *Kali*, no match will be found, and the catch-all statement will be displayed.

References

- 14.3.1 Bash Scripting Logic
- 14.3.4 Branching
- 14.3.5 Bash Scripting Logic Facts

q_script_logic_lp5_case_statement.question.fex

•	Question 2:	Correct
•	Question 2:	✓ Correct

Anna, a technician, executed a command to display the contents of a file and received the output.

```
[user@linux ~]$ cat myfile.txt
at: myfile.txt: No such file or directory
```

Which of the following commands would Anna enter to find out the exit code that was returned by this command?

- exit
- env
- → echo \$?
 - echo \$1

Explanation

echo \$? displays the exit code from the previously executed command. In this case, a value of 1 would displayed because the command failed. A 0 indicates no errors.

echo \$1 does not display anything.

exit causes the shell to exit.

env displays the current environment variables.

References

- ☐ 14.1.4 Scripting Facts
- D 14.3.1 Bash Scripting Logic
- 14.3.3 Exit Codes
- 14.3.5 Bash Scripting Logic Facts

q_script_logic_lp5_exit_codes.question.fex

▼ Question 3: ✓ Correct

Given the following bash script,

#!/bin/bash
for i in \$(ls)
do
 echo item: \$i
done

Which of the following shows possible output if the script is executed from Bill's home directory?

item: /home/sally

item:/home/bill

item: /home/mario item: /home/lucinda

item: .bash_history
item: .bash_logout

item: .bash_profile

item: bashrc

item: Desktop

item: Documents

item:/

item: /home

item: /home/bill

item: /home/bill/Documents

Explanation

The script will loop through the output of the **Is** command and display each item. In this case, the three folders Desktop, Documents, and Downloads were the only three items in Bill's home directory. The for loop iterated through the output.

The hidden file .bash_history, .bash_logout, and .bash_profile would not be include in the ls listing.

The /home/sally and other directories would not be included in the ls listing.

The root directory / and other directories would not be included in the ls listing.

References



14.3.2 Looping

14.3.5 Bash Scripting Logic Facts

 ${\tt q_script_logic_lp5_for_loop.question.fex}$

▼ Question 4: ✓ Correct

Given the following bash script:

```
#!/bin/bash
mynumber=5
guess=0
echo -e "I am thinking of a number from 1 to 10\n"
read -p "Enter guess: " guess
if (( guess == mynumber ))
then
  echo "That is correct!"
elif (( guess != mynumber )); then
  echo "Sorry, that is not my number!"
fi
```

Which of the following would be displayed if the number 12 is entered as the guess?

- error: number out of range
- **5**
- That is correct!
- Sorry, that is not my number!

Explanation

Entering the guess of 12 will result in the output, "Sorry, that is not my number!" The if statement will evaluate 12 and compare it to 5. Since it is not equal, the next elif statement checks to make sure the number does not equal 5 and displays the message.

This bash script does not produce any of the other answers.

References

- D 14.3.1 Bash Scripting Logic
- 14.3.4 Branching
- 14.3.5 Bash Scripting Logic Facts

q_script_logic_lp5_if_statement.question.fex

▼ Question 5: ✓ Correct
You are writing a bash script that lists the contents of a file. You would like to have any stderr messages sent to a file.
Which of the following commands will write the error message to a file?
cat projects 2>&1 projects.err
cat projects 1> projects.err
cat projects > projects.err
cat projects 2> projects.err
Explanation
cat projects 2> projects.err redirects stderr to projects.err.
cat projects > projects.err redirects the output of the command to projects.err. It does not redirect stderr to the file.
cat projects 1> projects.err redirects the output to the file, not the stderr.
cat projects 2>&1 projects.err redirects stderr to stdout and displays any error on stdout. The file will not contain error messages.
References
14.1.4 Scripting Facts
14.3.1 Bash Scripting Logic
14.3.3 Exit Codes
14.3.5 Bash Scripting Logic Facts
q_script_logic_lp5_stderr.question.fex

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▼ Ques	tion 6: ✓ Correct	
Which of the following statements is true about the command myscript < mydata.txt ?		
	The output of <i>mydata.txt</i> is stored in myscript, where it is processed.	
	myscript outputs (stdout) data received from the mydata.txt input (stdin).	
	The output of myscript is appended to <i>mydata.txt</i> .	
→ ○	myscript receives input (stdin) from mydata.txt.	
Explanation		
myscript receives input (stdin) from mydata.txt.		
References		
14.1.4 Scripting Facts		
D 14.3.1 Bash Scripting Logic		
14.3.3 Exit Codes		
14.3.5 Bash Scripting Logic Facts		

 ${\tt q_script_logic_lp5_stdin.question.fex}$

▼ Question 7: ✓ Correct			
Given the command Is > myfiles which of the following describes the results?			
The stdout of the Is command is redirected to the myfiles file.			
The Is command outputs the contents of the myfiles file.			
The Is command takes the stdin from myfiles and displays the results.			
The Is command lists only the files that match those stored in the myfiles file.			
Explanation			
The stdout of the Is command is redirected to the myfiles file.			
References			
14.1.4 Scripting Facts			
D 14.3.1 Bash Scripting Logic			
14.3.3 Exit Codes			
14.3.5 Bash Scripting Logic Facts			
g script logic lp5 stdout.guestion.fex			

▼ Question 8: ✓ Correct

Given the following bash script:

```
#!/bin/bash
declare -i count=5
until [ $count -lt 3 ]
do
   echo count $count
   count=count-1
done
```

Which of the following shows the output from this script?

count 1

count 2

count 3

count 4

count 5

count 5

count 4

count 5

ocount 4

count 3

count 3

count 4

count 5

Explanation

This script produces the following output:

count 5

count 4

count 3

The until loop starts with the value of 5 as the count and continues to decrease the count by one until the number is less than 3. At that point, the until loop stops.

The script does not produce the other outputs.

References



14.3.2 Looping

14.3.5 Bash Scripting Logic Facts

q_script_logic_lp5_until_loop.question.fex

▼ Question 9: ✓ Correct

Given the following command sequence:

echo 'blue orange green brown' | while read a b c d; do echo output: \$b \$c \$a \$d; done

Which of the following is the correct output?

output: blue orange green brown

output: orange green blue brown

output: blue

output: b c a d

Explanation

The results of the while loop will produce *output: orange green blue brown.* The while loop will read in the four values from the **echo** command and display them in a different order based on the variables \$b \$c \$a \$d.

output: blue orange green brown is the incorrect result since the second echo displays the input in different order.

output: b l u e is incorrect because the *read* command will read an entire word delimited by spaces into the variables.

output: b c a d is incorrect because \$b \$c \$a \$d are variables and contain the values read from the first **echo** command.

References

D 14.3.1 Bash Scripting Logic

□ 14.3.2 Looping

14.3.5 Bash Scripting Logic Facts

q_script_logic_lp5_while_loop.question.fex

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