

D3.1.1 - quiz - Shell Script Elements Part 1

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Monday December 25, 2023

Seat 99 (Grade level 13)

Cyber Capstone

0. What is phishing?

- A. A cyber defense tactic
- B. A cybercrime tactic used to deceive individuals
- C. A software used to protect against malware
- D. A type of encryption algorithm

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1. What is the primary purpose of a while loop in shell scripting?

- A. Executes a set of commands as long as a specified condition is false.
- B. Executes a set of commands as long as a specified condition is true.
- C. Iterates over a sequence of numbers.
- D. Executes a set of commands until a specified condition is met.

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2. Which loop in shell scripting iterates over a sequence, like a range of numbers?

- A. While loop
- B. For loop
- C. Until loop
- D. If statement

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3. What does the following shell script construct do?

```
for variables in {start...end...step}; do
```

```
    commands
```

```
done
```

- A. Defines variables in a sequence based on the specified range and step, then executes commands.
- B. Executes commands until a specified condition is false.
- C. Generates arbitrary strings using curly braces.

D. Matches filenames with patterns.

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4. What is the primary function of an if statement in shell scripting?

A. Executes a set of commands based on the evaluation of a condition.

B. Iterates over a sequence of numbers.

C. Matches filenames with patterns.

D. Executes a set of commands as long as a specified condition is false.

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5. Which shell scripting construct provides multiple possible execution paths based on the value of an expression?

A. While loop

B. If statement

C. Switch/Case

D. For loop

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6. What is the purpose of shell parameter expansion in shell scripting?

A. Matches filenames with patterns.

B. Generates arbitrary strings using curly braces.

C. Manipulates and expands the values of variables.

D. Executes a set of commands as long as a specified condition is false.

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7. How is boolean logic implemented in shell scripting?

A. Using boolean data types.

B. Using native boolean variables.

C. Combining conditions using logical operators (&& for AND, || for OR).

D. Comparing strings using operators like == and !=.

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8. What is the purpose of variables in shell scripting?

A. To generate arbitrary strings using curly braces.

B. To manipulate and expand the values of variables.

C. To perform arithmetic operations within double parentheses.

D. To store and manipulate data, acting as placeholders for values.

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9. How is "search and replace" accomplished in shell scripting?

A. Using switch/case constructs.

B. Using regular expressions.

C. Using the chown command.

D. Using the echo command.

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