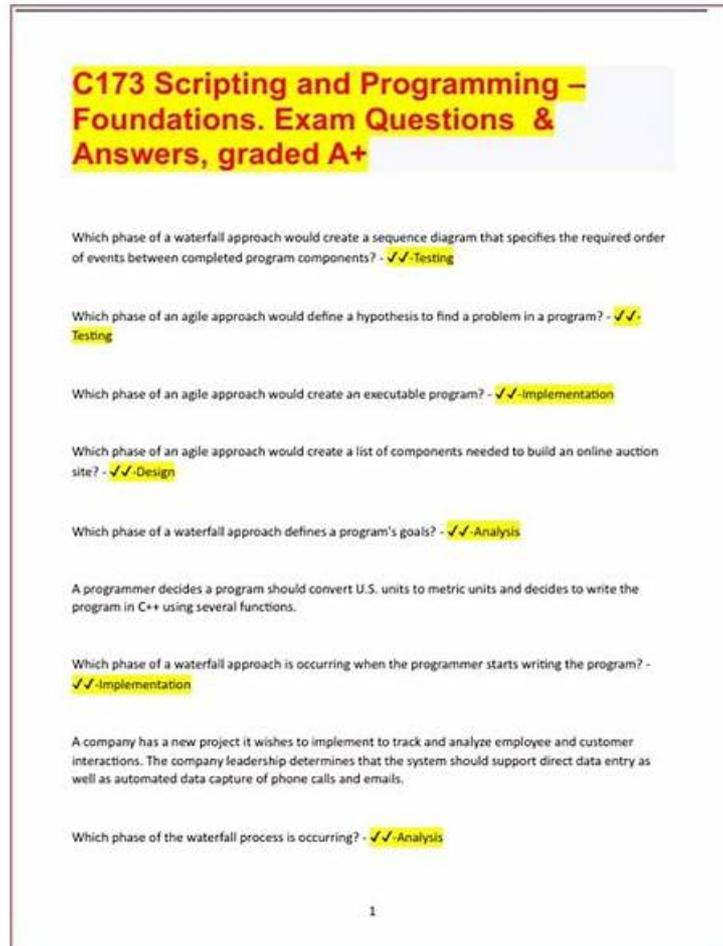


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WGU Scripting-and-Programming-Foundations Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Scripting and Programming Foundations: This section of the exam measures the skills of Junior Software Developers and covers the essential building blocks of programming. It focuses on variables, data types, flow control, and basic design concepts. Learners understand how programming logic works and how different languages handle similar tasks. The section also introduces the difference between interpreted and compiled languages in a simple and practical way.
Topic 2	<ul style="list-style-type: none">• Explaining Logic and Outcomes of Simple Algorithms: This section of the exam measures the skills of Entry Level Programmers and covers the ability to read simple algorithms and understand how they work. It focuses on predicting outputs, understanding step by step logic, and identifying how basic instructions create a final result. The goal is to help learners understand algorithm reasoning without requiring advanced coding knowledge.
Topic 3	<ul style="list-style-type: none">• Identifying Scripts for Computer Program Requirements: This section of the exam measures the skills of Junior Software Developers and covers the ability to match a task with the correct script or programming approach. It highlights how different scripts can satisfy specific requirements and how to recognize the right structure for a given programming problem.
Topic 4	<ul style="list-style-type: none">• Using Fundamental Programming Elements: This section of the exam measures skills of Entry Level Programmers and covers the use of basic programming components required in everyday tasks. It includes working with variables, loops, conditions, and simple logic to perform common operations. The focus is on applying these elements correctly to complete small programming assignments in a clear and organized way.

WGU Scripting and Programming Foundations Exam Sample Questions (Q78-Q83):

NEW QUESTION # 78

Which problem is solved by DijkStra's shortest path algorithm?

- A. Given two newspaper articles what is the greatest sequence of words shared by both articles?
- B. Given an alphabetized list of face entrants and a person's name, is the person entered in the race?
- C. Given the coordinates of five positions, what is the most fuel-efficient flight path?
- D. Given an increasing array of numbers is the number 19 in the array?

Answer: C

Explanation:

Dijkstra's shortest path algorithm is designed to find the shortest path between nodes in a graph. This can be applied to various scenarios, such as routing problems, network optimization, and in this case, determining the most fuel-efficient flight plan. The

algorithm works by iteratively selecting the unvisited vertex with the smallest tentative distance from the source, then visiting the neighbors of this vertex and updating their tentative distances if a shorter path is found. This process continues until the destination vertex is reached or all reachable vertices have been visited.

In the context of the given options, Dijkstra's algorithm is best suited for option B, where the goal is to find the most fuel-efficient path (i.e., the shortest path) between multiple points (coordinates of five positions).

The algorithm is not designed to solve problems like searching for an element in an array (option A), finding the longest common subsequence (option C), or searching for a name in a list (option D).

NEW QUESTION # 79

Which two operators are found in the snippet `not (g != 8)`?

Choose 2 answers.

- A. Equality and arithmetic
- B. Logical and arithmetic
- C. Assignment and arithmetic
- D. Equality and logical

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The snippet `not (g != 8)` contains two operators: `not` (logical NOT) and `!=` (not equal, an equality operator).

According to foundational programming principles (e.g., Certipoint Scripting and Programming Foundations Study Guide), operators are categorized by their function, such as logical, equality, arithmetic, or assignment.

* Snippet Analysis:

* `not`: A logical operator that negates a boolean expression (e.g., `not True` yields `False`).

* `!=`: An equality operator that checks if two values are not equal (e.g., `g != 8` returns `True` if `g` is not 8).

* Option A: "Equality and logical." This is correct. The snippet includes `!=` (equality) and `not` (logical).

* Option B: "Logical and arithmetic." This is incorrect. There are no arithmetic operators (e.g., `+`, `-`, `*`, `/`) in the snippet.

* Option C: "Equality and arithmetic." This is incorrect. The snippet lacks arithmetic operators.

* Option D: "Assignment and arithmetic." This is incorrect. There are no assignment operators (e.g., `=`) or arithmetic operators in the snippet.

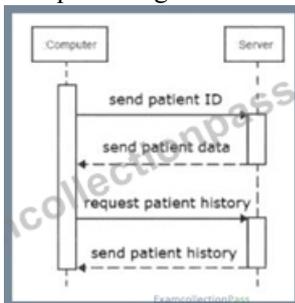
Certipoint Scripting and Programming Foundations Study Guide (Section on Operators).

Python Documentation: "Logical Operators" (<https://docs.python.org/3/reference/expressions.html#boolean-operations>).

W3Schools: "C Operators" (https://www.w3schools.com/c/c_operators.php).

NEW QUESTION # 80

A sequence diagram is shown:



What is the purpose of a sequence diagram?

- A. It outlines the potential actions of a user
- B. It outlines the needed computations.
- C. It illustrates the communication steps for a particular software scenario.
- D. It depicts program operations, branches, and loops.

Answer: C

Explanation:

A sequence diagram is a type of interaction diagram that details how operations are carried out within a system. It is used to model

the interactions between objects or components in a sequence that reflects the order of operations, particularly focusing on the messages exchanged between these objects over time. The vertical axis of a sequence diagram represents time, and the horizontal axis represents the objects involved in the interaction. The purpose of a sequence diagram is to illustrate the sequence of messages or events that occur between these objects, typically in the context of a specific use case or scenario within the software system¹²³⁴.

References:

* The information provided is based on standard practices in software engineering and UML (Unified Modeling Language) documentation. For further reading on sequence diagrams and their applications, you can refer to resources such as Visual Paradigm¹, Creately², IBM Developer³, and Lucidchart⁴.

NEW QUESTION # 81

What is one task that could be accomplished using a while loop?

- A. When the user inputs a number, the program outputs "True" when the number is a multiple of 10.
- **B. A user is asked to enter a password repeatedly until either a correct password is entered or five attempts have been made.**
- C. The user inputs an integer, and the program prints out whether the number is even or odd and whether the number is positive, negative, or zero.
- D. After inputting two numbers, the program prints out the larger of the two.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A while loop repeatedly executes a block of code as long as a condition is true, making it suitable for tasks requiring iteration until a condition changes. According to foundational programming principles, while loops are ideal for scenarios with an unknown number of iterations or conditional repetition.

* Option A: "When the user inputs a number, the program outputs 'True' when the number is a multiple of 10." This is incorrect. This task requires a single check ($\text{number} \% 10 == 0$), which can be done with an if statement, not a loop.

* Option B: "The user inputs an integer, and the program prints out whether the number is even or odd and whether the number is positive, negative, or zero." This is incorrect. This task involves a single input and multiple conditional checks, handled by if statements, not a loop.

* Option C: "After inputting two numbers, the program prints out the larger of the two." This is incorrect.

Comparing two numbers requires a single if statement (e.g., $\text{if } (a > b)$), not a loop.

* Option D: "A user is asked to enter a password repeatedly until either a correct password is entered or five attempts have been made." This is correct. This task requires repeated input until a condition is met (correct password or five attempts), which is ideal for a while loop. For example, in Python:

```
attempts = 0
while attempts < 5 and input("Password:") != "correct":
    attempts += 1
```

Certiport Scripting and Programming Foundations Study Guide (Section on Control Structures: Loops).

Python Documentation: "While Statements" (https://docs.python.org/3/reference/compound_stmts.html#while).

W3Schools: "C While Loop" (https://www.w3schools.com/c/c_while_loop.php).

NEW QUESTION # 82

A software developer determines the mathematical operations that a calculator program should support.

Which two Waterfall approach phases are involved?

- A. Design and testing
- B. Design and implementation
- C. Implementation and testing
- **D. Analysis and design**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Determining the mathematical operations (e.g., addition, subtraction, multiplication) for a calculator program involves defining what the program should do (requirements) and planning how to achieve it (technical specifications). According to foundational

programming principles, this spans the analysis and design phases in the Waterfall methodology.

* Waterfall Phases Analysis:

* Analysis: The developer identifies the requirements, such as which operations the calculator must support (e.g., "must perform addition, subtraction, etc.").

* Design: The developer specifies how these operations will be implemented (e.g., defining functions like add(), subtract(), or their algorithms).

* Implementation: Codes the operations.

* Testing: Verifies the operations work correctly.

* Option A: "Analysis and design." This is correct. Analysis determines the operations needed (requirements), and design outlines their technical specifications (e.g., function signatures or algorithms).

* Option B: "Design and implementation." This is incorrect. Implementation involves coding the operations, not determining which operations are needed.

* Option C: "Implementation and testing." This is incorrect. These phases occur after the operations are determined, focusing on coding and verification.

* Option D: "Design and testing." This is incorrect. Testing verifies the implemented operations, not their determination.

Certipoint Scripting and Programming Foundations Study Guide (Section on Waterfall Phases).

Sommerville, I., Software Engineering, 10th Edition (Chapter 2: Waterfall Model).

Pressman, R.S., Software Engineering: A Practitioner's Approach, 8th Edition (Waterfall Analysis and Design).

NEW QUESTION # 83

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