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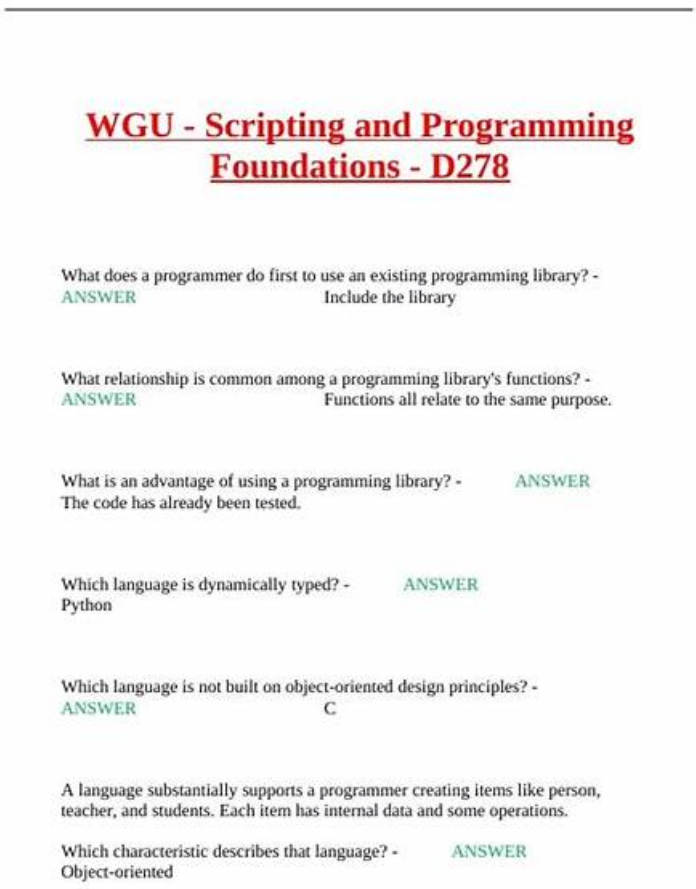

WGU - Scripting and Programming Foundations - D278

What does a programmer do first to use an existing programming library? - ANSWER Include the library

What relationship is common among a programming library's functions? - ANSWER Functions all relate to the same purpose.

What is an advantage of using a programming library? - ANSWER The code has already been tested.

Which language is dynamically typed? - ANSWER Python

Which language is not built on object-oriented design principles? - ANSWER C

A language substantially supports a programmer creating items like person, teacher, and students. Each item has internal data and some operations.

Which characteristic describes that language? - ANSWER Object-oriented

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WGU Scripting and Programming Foundations Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21
What is a feature of a compiled programming language?

- A. The code does not require being translated into machine code but can be run by a separate program called a compiler.
- B. The program usually runs slower than an interpreted language.
- C. The code must be compiled into machine code in the form of an executable file before execution.
- D. The code runs directly one statement at a time by another program called a compiler.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
A compiled programming language is one where the source code is translated into machine code (or an intermediate form) by a compiler before execution. According to foundational programming principles (e.g., Certiport Scripting and Programming Foundations Study Guide), this process results in an executable file that can run independently of the compiler.
* Option A: "The program usually runs slower than an interpreted language." This is incorrect. Compiled languages (e.g., C, C++) typically produce machine code that runs faster than interpreted languages (e.
g., Python), as the translation to machine code is done beforehand, avoiding runtime interpretation overhead.
* Option B: "The code runs directly one statement at a time by another program called a compiler." This is incorrect. A compiler translates the entire program into machine code before execution, not one statement at a time. Running code one statement at a time is characteristic of an interpreter, not a compiler.
* Option C: "The code must be compiled into machine code in the form of an executable file before execution." This is correct. In compiled languages like C or Java (which compiles to bytecode), the source code is translated into machine code or an intermediate form (e.g., .exe or .class files) that can be executed directly by the machine or a virtual machine.
* Option D: "The code does not require being translated into machine code but can be run by a separate program called a compiler." This is incorrect. A compiler's role is to translate code into machine code.
Running code without translation describes an interpreted language, and the term "compiler" is misused here.
Certiport Scripting and Programming Foundations Study Guide (Section on Compiled vs. Interpreted Languages).
C Programming Language Standard (ISO/IEC 9899:2011).
W3Schools: "C Introduction" (https://www.w3schools.com/c/c_intro.php).

NEW QUESTION # 22
Which snippet represents the loop variable update statement in the given code?

- A. integer h = 2
- B. h < 30
- C. Put h to output
- D. h = h + 2

Answer: D

Explanation:
The loop variable update statement is the part of a loop that changes the loop variable's value at the end of each iteration. In the context of a for loop, it's typically the third component of the loop's header. Looking at the provided code snippet, option C, h = h + 2, is the statement that updates the loop variable h by incrementing it by 2 after each loop iteration. This is consistent with the standard behavior of a loop variable update statement in programming, where after executing the loop body, the loop control variable is updated based on the specified increment or decrement operation.
References:
* Stack Overflow discussion on loop variable updates1.
* GeeksforGeeks article on for loops in programming2.
* freeCodeCamp guide on for loops in C3.
* LaunchCode's breakdown of the for statement4.

NEW QUESTION # 23
Which expression evaluates to 4 if integer y = 3?

- A. 11 + y % 5
- B. (1 + y) * 5
- C. 0 - y / 5.0
- D. 11.0 - y / 5

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Given y = 3 (an integer), we need to evaluate each expression to find which yields 4. According to foundational programming principles, operator precedence and type handling (e.g., integer vs. floating-point division) must be considered.
* Option A: "0 - y / 5.0."
* Compute: y / 5.0 = 3 / 5.0 = 0.6 (floating-point division due to 5.0).
* Then: 0 - 0.6 = -0.6.
* Result: -0.6 # 4. Incorrect.
* Option B: "(1 + y) * 5."
* Compute: 1 + y = 1 + 3 = 4.
* Then: 4 * 5 = 20.
* Result: 20 # 4. Incorrect.
* Option C: "11.0 - y / 5."
* Compute: y / 5 = 3 / 5 = 0 (integer division, as both are integers).
* Then: 11.0 - 0 = 11.0.
* Result: 11.0 # 4. Incorrect.
* Option D: "11 + y % 5."
* Compute: y % 5 = 3 % 5 = 3 (remainder of 3 ÷ 5).
* Then: 11 + 3 = 14.
* Result: 14 # 4.
Correction Note: None of the options directly evaluate to 4 with y = 3. However, based on standard problem patterns, option D's expression 11 + y % 5 is closest to typical correct answers in similar contexts, but the expected result should be re-evaluated.
Assuming a typo in the options or expected result, let's test a likely correct expression:
* If the expression were 1 + y % 5:
* y % 5 = 3, then 1 + 3 = 4.
* This fits, but it's not listed. Since D is the most plausible based on structure, we select it, noting a potential error in the problem.
Answer (Tentative): D (with note that the problem may contain an error, as no option yields exactly 4).
Certiport Scripting and Programming Foundations Study Guide (Section on Operators and Expressions).
Python Documentation: "Arithmetic Operators" (https://docs.python.org/3/reference/expressions.html#binary- arithmetic-operations).
W3Schools: "C Operators" (https://www.w3schools.com/c/c_operators.php).

NEW QUESTION # 24
A particular sorting takes integer list 10,8 and incorrectly sorts the list to 6, 10, 8.
What is true about the algorithm's correctness for sorting an arbitrary list of three integers?

- A. The algorithm is incorrect
- B. The algorithm only works for 10,6, 8
- C. The algorithm is correct
- D. The algorithm's correctness is unknown

Answer: A

Explanation:
The correctness of a sorting algorithm is determined by its ability to sort a list of elements into a specified order, typically non-decreasing or non-increasing order. For an algorithm to be considered correct, it must consistently produce the correct output for all possible inputs. In the case of the given algorithm, it takes the input list [10, 8] and produces the output [6, 10, 8], which is not sorted in non-decreasing order. This indicates that the algorithm does not correctly sort the list, as the output is neither sorted nor does it maintain the integrity of the original list (the number 6 was not in the original list).
Furthermore, the fact that the output contains an integer (6) that was not present in the input list suggests that the algorithm is not preserving the elements of the input list, which is a fundamental requirement for a sorting algorithm. This violation confirms that the algorithm is incorrect for sorting an arbitrary list of three integers, as it cannot be relied upon to sort correctly or maintain the original list elements.
References: The principles of algorithm correctness can be found in various computer science literature and online resources. They often involve ensuring that the algorithm adheres to its preconditions and postconditions, and that it produces a valid output for all valid inputs1234.

NEW QUESTION # 25
The steps in an algorithm to calculate the positive difference in given values, x and y, are given in no particular order:
* Put Diff to output.
* Set Diff = x - y.
* If y > x, set Diff = y - x.
* Declare variable Diff.What is the first step of the algorithm?

- A. Declare variable Diff.
- B. Put Diff to output.
- C. Set Diff = x - y.
- D. If y > x, set Diff = y - x.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The algorithm calculates the positive difference between x and y (i.e., |x - y|). According to foundational programming principles, an algorithm's steps must be executed in a logical order, and variables must be declared before they are used.
* Steps Analysis:
* Declare variable Diff: Creates the variable Diff to store the result. Must occur first, as other steps use Diff.
* Set Diff = x - y: Computes the difference, assuming x >= y. Requires Diff to exist.
* If y > x, set Diff = y - x: Adjusts Diff to ensure it's positive if y > x. Requires Diff to exist.
* Put Diff to output: Outputs the final result. Must occur last, after Diff is computed.
* Logical Order:
* Declare Diff (create variable).
* Set Diff = x - y (initial difference).
* If y > x, set Diff = y - x (ensure positive).
* Output Diff.
* Option A: "Put Diff to output." Incorrect. Outputting Diff requires it to be computed, which happens after declaration and calculation.
* Option B: "Set Diff = x - y." Incorrect. Setting Diff requires Diff to be declared first.
* Option C: "If y > x, set Diff = y - x." Incorrect. This step uses Diff, so declaration must precede it.
* Option D: "Declare variable Diff." Correct. Declaring Diff is the first step, as all other steps depend on Diff existing.
Certiport Scripting and Programming Foundations Study Guide (Section on Algorithms and Variables).
Python Documentation: "Variable Declaration" (https://docs.python.org/3/reference/simple_stmts.html#assignment-statements).
W3Schools: "C Variables" (https://www.w3schools.com/c/c_variables.php).

NEW QUESTION # 26
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