Verified Scripting-and-Programming-Foundations Answers - Technical Scripting-and-Programming-Foundations Training

WGU D278 Scripting and Programming - Foundations (Latest 2024/ 2025 Update) | Questions and Verified Answers| 100% Correct| Grade A

computational thinking - ANSWER A method of problem-solving that helps computer scientists prepare problems for digital solutions

algorithm - ANSWER a step-by-step procedure for solving a problem

interpreter - ANSWER Converts a program written in a higher level language into a lower level language and executes it, beginning execution before converting the entire program.

string literal - ANSWER text enclosed in quotes

moores law - ANSWER a predication made by Gordon Moore in 1965 that computing power will double every 1.5-2 years, it has remained more or less true ever since.

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WGU Scripting and Programming Foundations Exam Sample Questions (Q89-Q94):

NEW QUESTION # 89
A software developer creates a list of all objects and functions that will be used in a board game application and then begins to write the code for each object.

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

Answer: C

Explanation:
The process described involves two main phases: first, the developer is designing the application by creating a list of all objects and functions (the design phase), and then they are writing the code for each object (the implementation phase). This aligns with option C, Design and Implementation. Analysis would involve understanding the requirements or problems the software will address, which is not mentioned in the scenario.
Testing is a separate phase that typically occurs after implementation to ensure the code works as intended.

NEW QUESTION # 90
What is a string?

- A. A sequence of characters
- B. A name that refers to a value
- C. A built-in method
- D. A very precise sequence of steps

Answer: A

Explanation:
In the context of programming, a string is traditionally understood as a sequence of characters. It can include letters, digits, symbols, and spaces, and is typically enclosed in quotation marks within the source code. For instance, "Hello, World!" is a string. Strings are used to store and manipulate text-based information, such as user input, messages, and textual data within a program. They are one of the fundamental data types in programming and are essential for building software that interacts with users or handles textual content.
References:
* Coderslang: Become a Software Engineer1
* Wikipedia2
* Programming Fundamentals3
* TechTerms4

NEW QUESTION # 91
A function should determine the average of x and y. What should be the function's parameters and return value (s)?

- A. Parameters: x, yReturn value: average

- B. Parameters: noneReturn values: x, y
- C. Parameters: averageReturn values: x, y
- D. Parameters: x, y, averageReturn value: none

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
A function that calculates the average of two numbers (x and y) needs to take those numbers as inputs (parameters) and return their average as the output. According to foundational programming principles (e.g., Certiport Scripting and Programming Foundations Study Guide), functions should accept necessary inputs and return computed results, avoiding unnecessary parameters or outputs.
* Option A: "Parameters: x, y, average; Return value: none." This is incorrect. Including average as a parameter is unnecessary since it is the result to be computed. A function with no return value (void in C) would not provide the average to the caller, which defeats the purpose.
* Option B: "Parameters: x, y; Return value: average." This is correct. The function needs x and y as inputs to compute (x + y) / 2. The average is returned to the caller. For example, in Python: def average (x, y): return (x + y) / 2.
* Option C: "Parameters: none; Return values: x, y." This is incorrect. Without parameters, the function cannot access x and y to compute the average. Returning x and y is irrelevant to the task.
* Option D: "Parameters: average; Return values: x, y." This is incorrect. average is the output, not an input, and returning x and y does not provide the computed average.
Certiport Scripting and Programming Foundations Study Guide (Section on Functions).
Python Documentation: "Defining Functions" (https://docs.python.org/3/tutorial/controlflow.html#defining- functions).
W3Schools: "C Functions" (https://www.w3schools.com/c/c_functions.php).

NEW QUESTION # 92
Which data type should be used to hold the value of a person's body temperature in Fahrenheit

- A. Float
- B. String
- C. Boolean
- D. Integer

Answer: A

Explanation:
When dealing with body temperature, especially in Fahrenheit, the appropriate data type to use is a floating- point number (float).
Here's why:
* Measurement Precision:
* Body temperature can have decimal values, such as 98.6°F.
* Integer data types (like B. Integer) cannot represent fractional values.
* Floats allow for greater precision and can handle decimal places.
* Temperature Scales:
* Fahrenheit is a continuous scale, not a discrete set of values.
* It includes both positive and negative values (e.g., sub-zero temperatures).
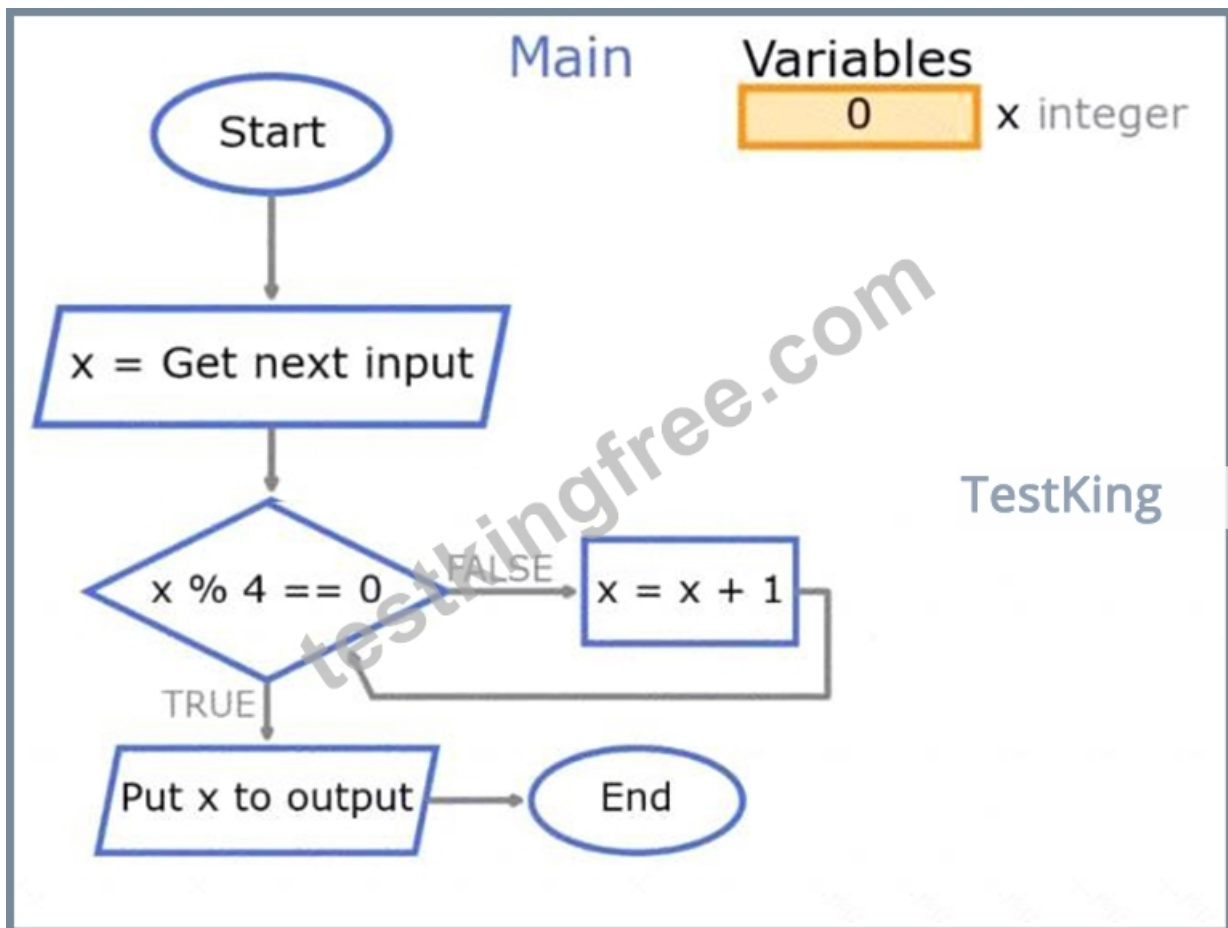* Floats accommodate this range effectively.
* Examples:
* A person's body temperature might be 98.6°F (normal) or 101.3°F (fever).
* These values require a data type that can handle fractions.

NEW QUESTION # 93

cc
What is the output of the given flowchart if the input is 54?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:
* Start with the input value (in this case, 54).
* Follow the flowchart's paths and apply the operations as indicated by the symbols and connectors.
* The rectangles represent processes or actions to be taken.
* The diamonds represent decision points where you will need to answer yes or no and follow the corresponding path.
* The parallelograms represent inputs/outputs within the flowchart.
* Use the input value and apply the operations as you move through the flowchart from start to finish.
References:
* Flowchart analysis is based on the understanding of flowchart symbols and their meanings, which can be found in resources such as ASQ's guide to flowcharts1 and Asana's explanation of flowchart symbols2.
To determine the correct answer, you would need to apply the input value of 54 to the flowchart and follow the steps until you reach the end, noting the output value. If you encounter any decision points, evaluate the condition with the current value and choose the path accordingly. By the end of the flowchart, you should have the final output value which corresponds to one of the options provided.

NEW QUESTION # 94

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