

Scripting-and-Programming-Foundations Latest Test Simulator & Scripting-and-Programming-Foundations Latest Exam Price

WGU D278 - SCRIPTING AND PROGRAMMING FOUNDATIONS TEST LATEST 2025

Program

List of statements, each statement performs some action and statements execute one at a time

Simplest types of instructions: Input, Processing, Output

Computational Thinking

To solve a problem write the steps to solve the problem.

Algorithm

List of instructions that solves a problem.

Algorithm should be developed before writing the program. Algorithm is a plan that describes solution while the program is implementation of the algorithm that actually solves the problem.

Information Age

Began in the 1990's, with human activity shifting from traditional industry to creating/managing/using computerized information

Computer Sales over time

Desktops and Laptops have been going down, while phones and tablets continue to increase

Embedded Computer

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

NEW QUESTION # 89

Which value would require an integer as a data type?

- A. An approximation of the number pi to five decimal places
- B. The weights of every patient involved in a pharmaceutical
- **C. The number of students in a section**
- D. The cost of a dinner including tax and tip

Answer: C

Explanation:

An integer data type is used to represent whole numbers without any fractional or decimal component. In the given options:

- * A. The number of students in a section is a countable quantity that does not require a fractional part, making it suitable for an integer data type.
- * B. The cost of a dinner including tax and tip would typically involve a decimal to account for cents, thus requiring a floating-point data type.
- * C. The weights of patients are usually measured with precision and can have decimal values, necessitating a floating-point data type.
- * D. An approximation of the number pi to five decimal places is a decimal value and would require a floating-point data type.

NEW QUESTION # 90

An algorithm should output "OK" if a number is between 98.3 and 98.9, else the output is "Not OK." Which test is a valid test of the algorithm?

- A. Input 99.9. Ensure output is "OK."
- B. Input 98.6. Ensure output is "Not OK."
- C. Input 99.9. Ensure output is "98.9."
- **D. Input 98.6. Ensure output is "OK."**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A valid test checks if the algorithm produces the expected output for a given input, according to its specification. The algorithm outputs "OK" for numbers in the range [98.3, 98.9] (inclusive or exclusive bounds not specified, but typically inclusive in such problems) and "Not OK" otherwise. According to foundational programming principles, we evaluate each test case.

* Specification:

* Input in [98.3, 98.9] # Output: "OK".

* Input outside [98.3, 98.9] # Output: "Not OK".

* Option A: "Input 98.6. Ensure output is 'Not OK.'" Incorrect. Since 98.6 is between 98.3 and 98.9 (98.3 # 98.6 # 98.9), the output should be "OK", not "Not OK". This test is invalid.

* Option B: "Input 98.6. Ensure output is 'OK.'" Correct. 98.6 is within the range, and the expected output is "OK", making this a valid test.

* Option C: "Input 99.9. Ensure output is 'OK.'" Incorrect. 99.9 is outside the range (99.9 > 98.9), so the output should be "Not OK", not "OK". This test is invalid.

* Option D: "Input 99.9. Ensure output is '98.9.'" Incorrect. The algorithm outputs either "OK" or "Not OK", not a numerical value like "98.9". This test is invalid.

Certiport Scripting and Programming Foundations Study Guide (Section on Algorithm Testing).

General Programming Principles: Testing and Validation.

W3Schools: "Python Conditions" (https://www.w3schools.com/python/python_conditions.asp).

NEW QUESTION # 91

An algorithm should output "OK" if a number is between 98.3 and 98.9, else the output is "Not OK". Which test is a valid test of the algorithm?

- A. Input 98.6. Ensure output is "OK "
- B. Input 99.9. Ensure output is "OK"
- C. Input 99.9. Ensure output is M98 9 "
- D. Input 98.6. Ensure output is "Not OK "

Answer: A

Explanation:

The algorithm is designed to output "OK" if the input number is within the range of 98.3 to 98.9. Therefore, the valid test would be one that checks if the algorithm correctly identifies a number within this range and outputs "OK". Option B provides an input of 98.6, which falls within the specified range, and expects the correct output of "OK", making it a valid test case for the algorithm.

References: The principles of testing algorithms involve checking for correct outputs given specific inputs, particularly testing normal, boundary, and invalid cases to ensure the algorithm behaves as expected¹². In this scenario, the input 98.6 is a normal case within the specified range, and the expected output is "OK" as per the algorithm's design criteria³.

1: Stack Overflow - How to decide test cases for unit tests? 2: Analytics Vidhya - Writing Test Cases for Machine Learning systems

3: LinkedIn - How to Choose the Best Test Cases for Your Algorithm

NEW QUESTION # 92

Which two statement describe advantages to using programming libraries? Choose 2 answers

- A. The programmer can improve productivity by using libraries.
- B. Libraries always make code run faster.
- C. Using libraries turns procedural code into object-oriented code.
- D. A program that uses libraries is more portable than one that does not
- E. Using a library minimizes copyright issues in coding.
- F. Using a library prevents a programmer from having to code common tasks by hand

Answer: A,F

Explanation:

Programming libraries offer a collection of pre-written code that developers can use to perform common tasks, which saves time and effort. This is because:

* B. Libraries provide pre-coded functions and procedures, which means programmers don't need to write code from scratch for tasks that are common across many programs. This reuse of code enhances efficiency and reduces the potential for errors in coding those tasks.

* E. By using libraries, programmers can significantly improve their productivity. Since they are not spending time writing and testing code for tasks that the library already provides, they can focus on the unique aspects of their own projects.

References:

* The benefits of using programming libraries are well-documented in software development literature.

For instance, "Code Complete" by Steve McConnell discusses how libraries can improve programmer productivity. Additionally, "The Pragmatic Programmer" by Andrew Hunt and David Thomas emphasizes the importance of reusing code to increase efficiency and reduce errors.

NEW QUESTION # 93

Which phase of a Waterfall approach defines specifics on how to build a program?

- A. Testing
- B. Implementation
- C. Analysis
- D. Design

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Waterfall methodology is a linear, sequential approach with phases including requirements analysis, design, implementation, testing, and maintenance. According to foundational programming principles (e.g., Certiport Scripting and Programming Foundations Study Guide), the design phase is where the specifics of how to build the program are defined, including system architecture, modules, and technical specifications.

* Waterfall Phases Overview:

* Analysis: Defines what the program should do (requirements, e.g., user needs or system goals).

* Design: Defines how the program will be built (e.g., architecture, data models, function specifications).

* Implementation: Writes the code based on the design.

* Testing: Verifies the program meets requirements.

* Option A: "Design." This is correct. The design phase produces detailed plans, such as system architecture, database schemas, and function or object specifications, outlining how the program will be constructed. For example, it might specify a function like calculateScore() or a class like User.

* Option B: "Testing." This is incorrect. Testing verifies the implemented program, not the planning of how to build it.

* Option C: "Analysis." This is incorrect. Analysis focuses on gathering requirements (what the program should do), not technical specifics of implementation.

* Option D: "Implementation." This is incorrect. Implementation involves coding the program based on the design's specifics, not defining them.

Certiport Scripting and Programming Foundations Study Guide (Section on Waterfall Methodology).

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

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

NEW QUESTION # 94

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