

Scripting-and-Programming-Foundations Test Questions

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WGU C173 SCRIPTING AND PROGRAMMING FOUNDATIONS (UNIT 8) TEST

Compiled language - ANSWER A programming language which is first compiled into machine code, and it can subsequently run only on that particular machine type.

Programs written using the compiled languages tend to run much faster than that of interpreted ones.

Compiler- ANSWER A computer program specifically developed to read a whole program and translate it to a lower level language and thus to the processor assembly language.

Interpreted language - ANSWER A language with no compilation, and executed directly by some other program.

The other program is called the interpreter, that carries out - or executes- interprets-, the language statements one line at a time. Interpreted languages may have a slightly more gentle learning curve because compilation can be avoided. Such languages are also more portable, running on any machine having an interpreter.

Scripting language - ANSWER A simple programming language that's limited to performing a set of specialized tasks.

Interpreter - ANSWER A program that translates a higher-level program into a lower-level language and executes it, carrying out parts of the program before the translation of the whole program is complete.

Statistically typed - ANSWER A language whose variable types do not dynamically change during execution.

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

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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.

WGU Scripting and Programming Foundations Exam Sample Questions (Q77-Q82):

NEW QUESTION # 77

Which value would require an integer as a data type?

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

Answer: B

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.

References:

* The use of integer data types for countable quantities is a fundamental concept in programming and can be found in introductory programming textbooks such as "Starting Out with Programming Logic and Design" by Tony Gaddis and online resources like the Mozilla Developer Network's (MDN) Web Docs on JavaScript data types.

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NEW QUESTION # 78

Which phase of an Agile approach would create a function that calculates shipping costs based on an item's weight and delivery zip code?

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

Answer: B

NEW QUESTION # 79

Which term refers to a function that represents the number of fixed-size memory units used for an input of a given size?

- A. Computational complexity
- B. Linear search
- **C. Space complexity**
- D. Runtime

Answer: C

Explanation:

Space complexity refers to the amount of memory space required by an algorithm in relation to the size of the input data. It is a function, often denoted as $S(N)$, that represents the number of fixed-size memory units used by the algorithm for an input of size N . For example, if an algorithm needs to create a new array that is the same size as the input array, its space complexity would be linear, or $O(N)$, where N is the size of the input array. This term is crucial in evaluating the efficiency of an algorithm, especially when working with large data sets or in systems with limited memory resources.

NEW QUESTION # 80

Which data type should be used to hold the value of a person's body temperature in Fahrenheit?

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

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Body temperature in Fahrenheit typically includes decimal precision (e.g., 98.6°F). According to foundational programming principles, a floating-point type is suitable for values with decimal components.

* Option A: "Integer." This is incorrect. Integers cannot store decimal values, and body temperature often requires precision (e.g., 98.6 # 99).

* Option B: "String." This is incorrect. While a string could store "98.6" as text, it's not suitable for numerical calculations (e.g., averaging temperatures).

* Option C: "Float." This is correct. A floating-point type (float) can store decimal values like 98.6, making it ideal for body temperature. For example, in C: float temp = 98.6;.

* Option D: "Boolean." This is incorrect. Booleans store true/false values, not numerical temperatures.

Certiport Scripting and Programming Foundations Study Guide (Section on Data Types).

Python Documentation: "Floating Point Types" (<https://docs.python.org/3/library/stdtypes.html#numeric-types-int-float-complex>).

W3Schools: "C Data Types" (https://www.w3schools.com/c/c_data_types.php).

NEW QUESTION # 81

A function should return 0 if a number, N is even and 1 if N is odd.

What should be the input to the function?

- A. Even
- B. 0
- C. 1
- D. N

Answer: D

Explanation:

In the context of writing a function that determines whether a given number N is even or odd, the input to the function should be the number itself, represented by the variable N. The function will then perform the necessary logic to determine whether N is even or odd and return the appropriate value (0 for even, 1 for odd).

Here's how the function might look in Python:

Python

```
def check_even_odd(N):
```

```
"""
```

Determines whether a given number N is even or odd.

Args:

N (int): The input number.

Returns:

int: 0 if N is even, 1 if N is odd.

```
"""
```

```
if N % 2 == 0:
```

```
    return 0 # N is even
```

```
else:
```

```
    return 1 # N is odd
```

```
# Example usage:
```

```
number_to_check = 7
```

```
result = check_even_odd(number_to_check)
```

```
print(f"The result for {number_to_check} is: {result}")
```

AI-generated code. Review and use carefully. More info on FAQ.

In this example, if number_to_check is 7, the function will return 1 because 7 is an odd number.

NEW QUESTION # 82

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