

WGU Scripting-and-Programming-Foundations Valid Test Practice, Scripting-and-Programming-Foundations New Question

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 Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 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.

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WGU Scripting and Programming Foundations Exam Sample Questions (Q126-Q131):

NEW QUESTION # 126

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

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

Answer: A

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.

References: The definition and explanation of space complexity can be found in various educational resources and literature on data structures and algorithms, such as computer science textbooks and online educational platforms¹².

NEW QUESTION # 127

A software team has been commissioned to create an animation application. Which event takes place during the analysis phase in the agile approach?

- A. Deciding that new capabilities in the animation application will be written as functions without the needs of any new objects
- B. Deciding to add five new capabilities to the animation application based on customer feedback
- C. Sending the application to customers for additional evaluation after new features are added
- D. Writing the code for five new capabilities

Answer: A

Explanation:

* This is the most likely event during the analysis phase. It involves:

* Understanding the requirements: What specific capabilities are needed?

* Breaking down the problem: How can those capabilities be achieved within the existing codebase, potentially by leveraging functions to organize and reuse code.

* Technical Design: Starting to think about the structure of the solution without diving fully into implementation.

NEW QUESTION # 128

What is a feature of CM as a programming language

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

Answer: C

Explanation:

The C(M) programming language is designed to translate mathematical constructions into efficient C programs. It is a declarative functional language with strong type checking and supports high-level functional programming. The C(M) compiler translates the C(M) program into a readable C program, which then needs to be compiled into machine code in the form of an executable file before it can be executed¹. This process is typical of compiled languages, where the source code is transformed into machine code, which can be directly executed by the computer's CPU. In contrast, interpreted languages are typically run by an interpreter, executing one statement at a time, which generally results in slower execution compared to compiled languages.

NEW QUESTION # 129

What is the agile phase that results in a list of objects to be written?

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

Answer: B

Explanation:

In Agile methodology, the phase that typically results in a list of objects to be written is the Design phase. This phase involves creating the architecture and design of the system to be developed. It's during this stage that developers and designers collaborate to identify the necessary objects and components that will make up the system, and how they will interact with each other. The output of this phase is often a set of design documents, diagrams, and a list of objects or components that need to be implemented in subsequent phases.

References: The Agile Development Lifecycle outlines various stages where different activities take place. The Design phase is crucial for setting a clear path for implementation and ensuring that the team has a shared understanding of the system's architecture². Additionally, Agile methodologies like Scrum and Extreme Programming (XP) emphasize the importance of design and architecture in their practices³.

NEW QUESTION # 130

What is an accurate way to describe a statically typed language?

- **A. It requires a large number of variables and variable conversions because of the need to commit to a variable type throughout the life of the program.**
- B. It includes custom variable types with methods, information hiding, data abstraction, encapsulation, polymorphism, and inheritance.
- C. It is based on the concept of modularization and calling procedures or subroutines.
- D. It uses methods that that produce consistent output based upon the arguments passed to those methods.

Answer: A

Explanation:

A statically typed language is one where the type of a variable is known at compile time. This means that the type of each variable must be declared and does not change throughout the program's execution. While this can lead to a larger number of variable declarations and sometimes conversions, it also allows for type checking at compile time, which can catch many errors before the program runs. Statically typed languages include Java, C, C++, and others¹²³.

NEW QUESTION # 131

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