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WGU Scripting and Programming Foundations Exam Sample Questions (Q76-Q81):

NEW QUESTION # 76

Which two situations would be helped by using a programming library?

- A. A programmer needs to write several interacting objects for a student gradebook application, some of which need an inheritance structure.
- B. A programmer is developing a database application that can house various types of data. The software cannot know ahead of time the data type, and so the programmer needs variables that do not require an initial declaration type.
- C. A programmer is writing a piece of mathematical code that requires the heavy use of recursive functions.
- **D. A programmer needs to perform a series of file compression tasks. These tasks are commonly performed by programmers, and the programmer does not want to have to code them all by hand**
- **E. A video game programmer needs to perform several animation tasks, all of which are very common in the industry. The programmer does not want to have to code each task. And they are unsure if they even know how to code a few of them.**
- F. A programming student is writing code to iterate through the integers in a list and determine the maximum.

Answer: D,E

Explanation:

Programming libraries are collections of pre-written code that programmers can use to perform common tasks without having to write the code from scratch. They are particularly helpful in situations where:

* The tasks are common and standardized across the industry, such as animation tasks in video games (Option C). Using a library can save time and resources, and also ensure that the animations are up to industry standards.

* The tasks are well-known and frequently performed by many programmers, such as file compression (Option D). Libraries provide a reliable and tested set of functions that can handle these tasks efficiently.

For the other options:

* A: While a library could be used, writing interacting objects and implementing inheritance is a fundamental part of object-oriented programming and may not necessarily require a library.

* B: Iterating through a list to find the maximum value is a basic programming task that typically doesn't require a library.

* E: Dynamic typing or the use of variables without an initial declaration type is a feature of the programming language itself rather than a library.

* F: Recursive functions are a programming concept that can be implemented without the need for a library, unless the recursion is part of a specific algorithm that a library might provide.

NEW QUESTION # 77

What is an advantage of using a programming library?

- A. Programs need not run to yield results.
- **B. There is improved programmer productivity.**
- C. Static program elements are visualized.
- D. There are more statements in a user's main function

Answer: B

Explanation:

Programming libraries are collections of pre-written code that developers can use to optimize tasks and solve common problems efficiently. By using a library, developers don't have to write everything from scratch, which saves time and reduces the potential for errors. Libraries can provide solutions for user authentication, data visualization, animations, networking, and more, allowing developers to focus on the unique aspects of their projects rather than reinventing the wheel¹²³.

References:

* Codingent's "What Is a Library in Programming? A Complete Guide"¹.

* CareerFoundry's "What is a Programming Library? A Beginner's Guide"².

* Robots.net's article on the importance of libraries in programming³.

NEW QUESTION # 78

Which value would require an integer as a data type?

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

Answer: A

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 # 79

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

Answer: B

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 # 80

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 code must be compiled into machine code in the form of an executable file before execution.**

- C. The program usually runs slower than an interpreted language.
- D. The code runs directly one statement at a time by another program called a compiler.

Answer: B

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., Certipoint 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.

Certipoint 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 # 81

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