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## Scripting And Programming - Foundations - WGU C173

What is an editor? - A program that allows you to write code

What is a compiler? - A program that produces other programs. The compiler does all the work at once and then runs the new program. We're translating the code we wrote to computer code all at once. This is often when we produce an .exe (executable) file.

What is an interpreter? - A program that runs code one line at a time. Instead of converting all of the code at once it runs each line as it's needed. It interprets that specific line from your code to computer code.

What is an operator and what does it do? - An operator takes two operands (values) and does something with them. It is an object capable of manipulating a value. If it is a comparison or logical operator it would compare to see if they are similar or dissimilar. If it is a mathematical operator it would perform mathematical calculations.

What is an expression? - something that has a value.

What is the difference in a terminal and non-terminal expression? - A terminal is a final value, while a non-terminal can be reduced further.

What is proper Python grammar for making an expression? - Expression → Expression Operator Expression

The Expression non-terminal that appears on the left side can be replaced by an Expression, followed by an Operator, followed by another Expression. For example,  $1 + 1$  is an Expression Operator Expression.

What is a variable? - a name that refers to a value

What are the three main types of data covered? How do you declare each one? - string is a sequence of characters surrounded by quotes, either single or double  
example: myVar = "string data"

Integer is a number - example: myVar = 33

Boolean is a true or false value - example: myVar = True

What is grammar used for in programming? - In a programming language like Python, the code must match the language grammar exactly. When programming language grammar is not followed the interpreter will return a Syntax Error message. This means that the structure of the code is inconsistent with the rules of the programming language.

順便提一下，可以從雲存儲中下載Testpdf Scripting-and-Programming-Foundations考試題庫的完整版：<https://drive.google.com/open?id=1O0Qp67M9HIYa55M7BI6An67vgzuSA2Td>

要在今日競爭的工作市場上成功，無論是尋找新的機會或是在您目前的職位上獲得升遷，都需要建立與展現您的技術專業和技能。Scripting-and-Programming-Foundations 認證能夠滿足考生在激烈的職場生涯中脫穎而出，眾多國際知名認證廠商都在招聘與 WGU 技能相關職位時首先看中 Scripting-and-Programming-Foundations 的認證證書，可見 Scripting-and-Programming-Foundations 認證的含金量很高。

## WGU Scripting-and-Programming-Foundations 考試大綱：

主題	簡介
主題 1	<ul style="list-style-type: none"><li>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.</li></ul>

主題 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
主題 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
主題 4	<ul style="list-style-type: none"> <li>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.</li> </ul>

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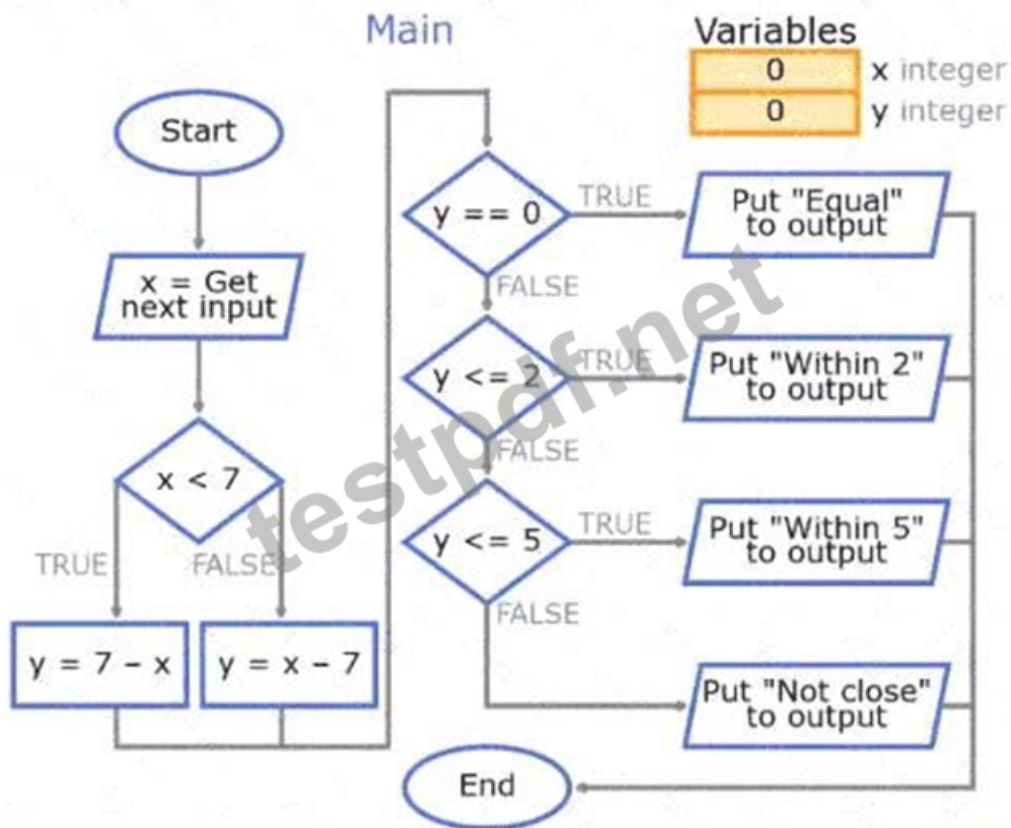
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### 問題 #103

Consider the given flowchart.



What is the output of the input is 7?

- A. Equal
- B. Within 2
- C. Not close
- D. Within 5

答案：C

解題說明：

- \* Start with the input value (in this case, 7).
- \* 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.

#### 問題 #104

Which line is a loop variable update statement in the sample code?

integer h = 0

do

Put "What is the password?" to output

String userInput = Get next input

if userInput != pwd

Put "Incorrect." to output

h = h + 1

while (userInput != pwd) and (h <= 10)

if userInput = pwd

Put "Access granted." to output

else

Put "Access denied." to output

- A. integer h = 0
- B. (userInput != pwd) and (h <= 10)

- C. if userInput = pwd
- D. h = h + 1

答案： D

解題說明：

Comprehensive and Detailed Explanation From Exact Extract:

The loop variable update statement modifies the loop control variable to progress the loop. In this do-while loop, h tracks the number of attempts, and its update is critical to the loop's termination. According to foundational programming principles, the update statement is typically within the loop body.

\* Code Analysis:

\* integer h = 0: Initializes h (not an update).

\* Put "What is the password?" to output: Outputs prompt (not an update).

\* String userInput = Get next input: Gets input (not an update).

\* if userInput != pwd: Conditional check (not an update).

\* Put "Incorrect." to output: Outputs message (not an update).

\* h = h + 1: Updates h, incrementing the attempt counter.

\* while (userInput != pwd) and (h <= 10): Loop condition (not an update).

\* Option A: "if userInput = pwd." Incorrect. This is a conditional statement, not an update. (Note: The code uses = for comparison, which may be a typo; == is standard.)

\* Option B: "h = h + 1." Correct. This updates the loop variable h, incrementing it to track attempts.

\* Option C: "(userInput != pwd) and (h <= 10)." Incorrect. This is the loop condition, not an update.

\* Option D: "integer h = 0." Incorrect. This is the initialization, not an update.

Certiport Scripting and Programming Foundations Study Guide (Section on Loops and Variables).

C Programming Language Standard (ISO/IEC 9899:2011, Section on Do-While Loops).

W3Schools: "C Do While Loop" ([https://www.w3schools.com/c/c\\_do\\_while\\_loop.php](https://www.w3schools.com/c/c_do_while_loop.php)).

#### 問題 #105

Which operator is helpful in determining if an integer is a multiple of another integer?

- A. ||
- B. +
- C. %
- D. /

答案： C

解題說明：

Comprehensive and Detailed Explanation From Exact Extract:

To determine if one integer is a multiple of another, the modulo operator (%) is used. According to foundational programming principles, the modulo operator returns the remainder of division, and if the remainder is zero, the first integer is a multiple of the second.

\* Option A: "/" This is incorrect. The division operator (/) returns the quotient of division, which may include a decimal (e.g.,  $7 / 2 = 3.5$ ). It does not directly indicate if one number is a multiple of another.

\* Option B: "||" This is incorrect. The logical OR operator (||) is used for boolean operations (e.g., in conditional statements) and is unrelated to checking multiples.

\* Option C: "+" This is incorrect. The addition operator (+) adds two numbers and is not used to check if one is a multiple of another.

\* Option D: "%" This is correct. The modulo operator (%) returns the remainder after division. If  $a \% b = 0$ , then a is a multiple of b (e.g.,  $10 \% 5 = 0$ , so 10 is a multiple of 5).

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

C Programming Language Standard (ISO/IEC 9899:2011, Section on Arithmetic Operators).

W3Schools: "Python Operators" ([https://www.w3schools.com/python/python\\_operators.asp](https://www.w3schools.com/python/python_operators.asp)).

#### 問題 #106

A program adds a service fee to the total cost of concert tickets when the tickets are printed and mailed to customers. Another service fee is also added if the

- A. While loop

- B. If statement
- **C. Multiple if statements**
- D. Do-while loop

答案： C

解題說明：

The scenario describes conditional logic where service fees depend on these factors:

\* Printing: There seems to be a base service fee whenever tickets are printed.

\* Mailing: An additional fee applies if tickets are printed and mailed.

The most suitable way to model this logic is using multiple if statements:

\* First if: Checks if tickets are printed. If so, add the base printing fee.

\* Second if (nested): Checks if tickets are mailed (and by implication, already printed). If so, add the mailing fee.

### 問題 #107

A particular sorting algorithm takes integer list [10, 6, 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.

答案： B

解題說明：

Comprehensive and Detailed Explanation From Exact Extract:

A sorting algorithm is correct if it consistently produces a sorted output (e.g., ascending order: [6, 8, 10] for input [10, 6, 8]).

According to foundational programming principles, if an algorithm fails to sort any input correctly, it is considered incorrect for the general case.

\* Analysis:

\* Input: [10, 6, 8].

\* Output: [6, 10, 8].

\* Correct sorted output: [6, 8, 10] (ascending).

\* The algorithm's output [6, 10, 8] is not sorted, as  $10 > 8$ .

\* Option A: "The algorithm is incorrect." This is correct. Since the algorithm fails to sort [10, 6, 8] correctly, it is not a valid sorting algorithm for arbitrary inputs. A single failure proves incorrectness for the general case.

\* Option B: "The algorithm only works for [10, 6, 8]." This is incorrect. The algorithm does not "work" for [10, 6, 8], as it produces an incorrect output.

\* Option C: "The algorithm's correctness is unknown." This is incorrect. The given example demonstrates incorrectness, so the algorithm is known to be incorrect.

\* Option D: "The algorithm is correct." This is incorrect. The algorithm fails to sort the given input correctly.

Certiport Scripting and Programming Foundations Study Guide (Section on Sorting Algorithms).

Cormen, T.H., et al., Introduction to Algorithms, 3rd Edition (Chapter 2: Sorting).

GeeksforGeeks: "Sorting Algorithms" (<https://www.geeksforgeeks.org/sorting-algorithms/>).

### 問題 #108

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