

# WGU Foundations-of-Computer-Science関連問題資料: WGU Foundations of Computer Science - Fast2test品質 と価値を保証する



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きの学習資料の形式は何ですか? 私たちの考えでは、これら2つのことは、Foundations-of-Computer-Science試験  
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>> Foundations-of-Computer-Science関連問題資料 <<

## Foundations-of-Computer-Science最新テスト & Foundations-of-Computer- Scienceテスト問題集

すべてのWGU受験者の試験を容易にするために、Fast2testのFoundations-of-Computer-Science試験準備では履歴を  
テストし、パフォーマンスを確認することができます。その後、障害を見つけて克服できます。また、このタ  
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トがオンラインで勉強したり、オフラインで統合するためにデータを印刷したりするために使用できます。ま  
た、試験のためにFoundations-of-Computer-Science試験問題を選択することをお勧めします。

## WGU Foundations of Computer Science 認定 Foundations-of-Computer- Science 試験問題 (Q63-Q68):

### 質問 # 63

What is traversal in the context of trees and graphs?

- A. The process of visiting all nodes
- B. The process of changing the value of nodes
- C. The process of removing all nodes
- D. The process of connecting all nodes

正解: A

解説:

In data structures and algorithms, traversal refers to systematically visiting nodes in a tree or graph in order to process them. "Visiting" typically means performing some operation at each node, such as reading its value, marking it as seen, computing a property, or collecting it into an output structure. Traversal is foundational because many algorithms—search, path finding, connectivity checks, topological analysis, and evaluation of expressions—are built on traversal patterns.

In trees, traversal has classic forms: preorder, inorder, and postorder depth-first traversals, as well as breadth-first traversal (level-order). Each defines a rule for the order in which nodes are visited relative to their children. In graphs, traversal must additionally handle the possibility of cycles and multiple paths; textbooks therefore emphasize maintaining a "visited" set to avoid infinite loops.

The two principal graph traversal strategies are Depth-First Search (DFS) and Breadth-First Search (BFS). DFS explores along a path as far as possible before backtracking, while BFS explores layer by layer outward from a start node.

Options A, B, and C do not define traversal. Changing values may happen during traversal, but it is not what traversal means.

Removing all nodes is deletion, not traversal. Connecting all nodes is not a standard traversal concept. The correct definition is the process of visiting all nodes (typically reachable from a starting node, or all nodes in the structure if fully connected).

#### 質問 # 64

Which process is designed to establish the identity of the user such as with a username and password?

- A. Registration
- B. Verification
- C. Authentication
- D. Certification

正解: C

解説:

Authentication is the security process of proving or establishing a user's identity. In textbook terminology, authentication answers the question: "Who are you?" Common authentication factors include something you know (password, PIN), something you have (smart card, hardware token), and something you are (biometrics). Username and password is the classic "something you know" mechanism, where the username identifies the account and the password serves as a secret used to validate that the user is the rightful owner of that account.

Authentication is distinct from authorization, which determines what an authenticated user is allowed to do (permissions, roles). It is also distinct from registration, which is the administrative act of creating an account or enrolling a user in a system. "Verification" is a general term that can appear in many contexts, but in security frameworks the precise term for identity establishment is authentication. "Certification" usually refers to issuing or validating credentials such as digital certificates (PKI) or professional certifications, not the act of logging in with a password.

Textbooks emphasize that authentication should be strengthened with practices like hashing and salting passwords, multi-factor authentication (MFA), lockout policies, and secure transport (e.g., TLS) to prevent credential theft. The core concept remains: the process that establishes identity using credentials like a username and password is authentication.

#### 質問 # 65

What stores the location of the next node in a linked list?

- A. The pointer
- B. The header
- C. The value
- D. The index

正解: A

解説:

A linked list is a dynamic data structure made up of nodes, where each node typically contains two components: a data field (the value being stored) and a link field (commonly called a pointer or reference).

The pointer's role is to store the memory address (or reference) of the next node in the sequence, thereby maintaining the logical order of the list even though nodes may be scattered throughout memory. This is a key contrast with arrays, which store elements contiguously and rely on index arithmetic to locate the next element.

Because each node explicitly points to the next node, linked lists support efficient insertion and deletion operations compared with arrays. To insert a node, you allocate it and then adjust pointers so it fits into the chain. To delete a node, you redirect the pointer of the previous node to skip over the removed node.

Traversal is performed by starting at the head node and repeatedly following the pointer until a null reference indicates the end of the

list.

The other options do not correctly describe what stores the location of the next node. An index is used in array-like structures, not in a standard linked list node. The value is the payload data, not the link.

The "header" (often called the head pointer) is an external reference to the first node, not the field inside each node that links to the next. Therefore, the correct answer is the pointer.

#### 質問 # 66

Which Python command can be used to display the results of calculations?

- A. `print()`
- B. `compute()`
- C. `solve()`
- D. `result()`

正解: A

解説:

In Python, the standard way to display output to the console is the built-in function `print()`. When a program performs calculations—such as arithmetic expressions, function results, or computed statistics—`print()` can be used to show those results to the user. For example, `print(2 + 3)` displays 5, and `print(total / count)` displays the computed average. Textbooks introduce `print()` early because it supports interactive learning, debugging, and communicating program behavior.

`print()` can display one or multiple items separated by commas, automatically converting them to string form.

It also supports formatting via f-strings (e.g., `print(f'Sum = {s}')`) and optional parameters like `sep` and `end` to control output formatting. This makes it versatile for reporting calculated values, intermediate steps in algorithms, and final program outputs.

The other options are not standard Python built-ins for output. `compute()`, `result()`, and `solve()` are not universally defined commands in Python; they might exist as user-defined functions or in specific libraries, but they are not the general command taught in textbooks for displaying results. Python follows a clear separation: expressions compute values; `print()` displays them.

Therefore, the correct answer is `print()`, as it is the primary mechanism for producing human-readable output from calculations in typical Python programs and coursework.

#### 質問 # 67

How can a user subset a NumPy array `bmi` to only include values over 23?

- A. `bmi.select(23)`
- B. `bmi.where(bmi > 23)`
- C. `bmi.get_values(>23)`
- D. `bmi[bmi > 23]`

正解: D

解説:

NumPy supports a powerful technique called Boolean indexing (also called Boolean masking) to filter arrays based on a condition. When you write `bmi > 23`, NumPy performs an element-wise comparison and produces a Boolean array of the same shape, containing `True` where the condition holds and `False` otherwise. Using that Boolean array inside square brackets, as in `bmi[bmi > 23]`, tells NumPy to return a new 1D array containing only the elements whose mask value is `True`. This approach is heavily emphasized in scientific computing curricula because it expresses selection logic without explicit loops and runs efficiently in optimized compiled code.

Option B looks close but is not standard NumPy usage. The function commonly used is `np.where(condition)` or `np.where(condition, x, y)`. While `np.where(bmi > 23)` can return indices, `bmi.where(...)` is not a NumPy array method; it is more associated with pandas objects. Options A and C are not valid NumPy APIs for filtering.

Boolean indexing is central in data analysis tasks such as removing invalid measurements, selecting a population subgroup, applying thresholds, and building feature subsets. It composes cleanly with vectorized computation, for example `bmi[bmi > 23].mean()`, enabling concise and high-performance numerical workflows.

#### 質問 # 68

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