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WGU Foundations of Computer Science Sample Questions (Q63-Q68):

NEW QUESTION # 63
What is the purpose of user management and access control in a networked environment?

- A. To establish permissions and monitor resource usage
- B. To provide unlimited access to all network resources
- C. To ensure all users have the same level of access to resources

- D. To restrict all users from accessing confidential documents

Answer: A

Explanation:
In a networked environment, user management and access control exist to ensure that resources are used securely, appropriately, and accountably. The core idea isauthorization: defining what each user (or group of users) is allowed to do-read files, modify data, access applications, administer systems, and so on. This is commonly guided by the principle ofleast privilege, which states that users should receive only the permissions necessary to perform their tasks. Proper access control reduces the damage from mistakes and limits the impact of compromised accounts.
User management also includesauthenticationsupport (ensuring a user is who they claim to be) and administrative functions such as creating accounts, assigning roles, revoking access, and enforcing policies (password rules, multi-factor authentication requirements, session timeouts). In many systems, access control is implemented through models like discretionary access control (DAC), role-based access control (RBAC), or mandatory access control (MAC), each with different security properties.
Option B correctly reflects this: the goal is to establish permissions and to monitor or audit usage (logging access, tracking changes, detecting suspicious behavior). Option A is wrong because equal access is rarely secure or practical. Option C is the opposite of secure practice. Option D is too absolute:
systems typically restrict some users from some confidential resources, not all users from all confidential documents.

NEW QUESTION # 64
What is the main advantage of using NumPy arrays over regular Python lists for data analysis?

- A. NumPy arrays can perform calculations over entire collections of values.
- B. NumPy arrays can only hold elements of the same type.
- C. NumPy arrays can concatenate lists by default.
- D. NumPy arrays can bring different types into the array at the same time.

Answer: A

Explanation:
The primary advantage of NumPy arrays in data analysis is their support for fast, vectorized computation over whole collections of numeric data. A NumPy `ndarray` stores elements in a contiguous memory block with a single, fixed data type, enabling efficient low-level operations implemented in optimized C/Fortran code. As a result, expressions like `arr + 5`, `arr * arr`, or `np.mean(arr)` operate over the entire array without explicit Python loops. This style is commonly called **vectorization**, and it is a central theme in scientific computing textbooks because it is both clearer to read and significantly faster for large datasets.
Option A describes a property of Python lists, not NumPy arrays. Python lists can mix types freely, but this flexibility comes with overhead. Option B is true-NumPy arrays typically hold a single dtype-but it is not the main advantage; it is more of an implementation feature that enables speed and memory efficiency.
Option D is not a defining advantage; both lists and arrays can be concatenated, and NumPy provides dedicated functions such as `np.concatenate`, but concatenation is not the core reason NumPy dominates data analysis workflows.
Because NumPy operations are applied element-wise across entire arrays and can leverage CPU vector instructions and efficient memory access patterns, they form the foundation for higher-level tools like pandas, SciPy, and many machine learning libraries. This is why the best answer is that NumPy arrays can perform calculations over entire collections of values.

NEW QUESTION # 65
Which principle can be used to implement an algorithm to calculate factorial or Fibonacci sequence?

- A. Iterative programming
- B. Procedural programming
- C. Recursion programming
- D. Object-oriented programming

Answer: C

Explanation:
Factorial and Fibonacci are classic examples used to teachrecursion, a technique where a function solves a problem by calling itself on smaller subproblems. The key requirement for recursion is (1) abase casethat stops further calls and (2) arecursive casethat reduces the problem size. For factorial, the definition is (n! = n
\times (n-1)!) with base case (0! = 1) (or (1! = 1)). For Fibonacci, (F(n) = F(n-1) + F(n-2)) with base cases (F (0)=0) and

(F(1)=1). These mathematical definitions map directly into recursive code, which is why textbooks frequently introduce recursion using these sequences.
While factorial and Fibonacci can also be computed iteratively, the question asks for the principle that can be used to implement such algorithms, and recursion is the canonical textbook answer. Recursion also connects to important CS topics: call stacks, activation records, and divide-and-conquer problem solving.
Option A ("procedural programming") and option D ("object-oriented programming") are broader paradigms rather than the specific technique used in the classic implementations. Option B ("iterative programming") is a valid alternative approach, but the standard instructional principle highlighted for these particular examples is recursion. Textbooks also note that naive recursive Fibonacci is inefficient (exponential time) unless optimized with memoization or converted to an iterative or dynamic programming approach.

NEW QUESTION # 66
What Python code would return the value 2 from np_2d, where np_2d = np.array([[1, 2, 3, 4], [10, 20, 30, 40]])?

- A. np_2d[2]
- B. np_2d[0,1][1]
- C. np_2d[2, 0]
- D. np_2d[0,1]

Answer: D

Explanation:
NumPy arrays support multi-dimensional indexing using a comma-separated index tuple. For a 2D array, the first index selects the row and the second index selects the column. With np_2d = np.array([[1, 2, 3, 4], [10, 20, 30, 40]]), row 0 is [1, 2, 3, 4]. Within that row, column 1 is the second element, which is 2. Therefore, np_2d[0, 1] returns 2.
Option A is incorrect because np_2d[0,1] already produces a scalar (an integer), and indexing a scalar again with [1] is invalid. Option C, np_2d[2], attempts to access the third row, but this array has only two rows (indices 0 and 1), so it would raise an index error. Option D, np_2d[2, 0], also references a non-existent third row and would error.
This indexing rule is foundational in array-based computing: it provides direct access to elements without loops and supports efficient numerical computation. Understanding row/column indexing is essential for slicing, broadcasting, and matrix operations taught in scientific computing curricula.

NEW QUESTION # 67
What is the component of the operating system that manages core system resources but allows no user access?

- A. Device driver manager
- B. The kernel
- C. The File Explorer
- D. User interface layer

Answer: B

Explanation:
Thekernelis the central component of an operating system responsible for managing core system resources. It controls CPU scheduling, memory management, process creation and termination, device I/O coordination, and system calls-the controlled interface through which user programs request services. In operating systems textbooks, the kernel is described as running in a privileged mode (often called kernel mode or supervisor mode), which restricts direct user access for security and stability. User programs typically run in user mode and cannot directly manipulate hardware or critical OS structures; instead, they must request operations via system calls, which the kernel validates and executes.
This separation prevents accidental or malicious actions from crashing the entire system or compromising other processes. For example, a user application cannot directly write to arbitrary memory addresses or reprogram devices; the kernel mediates access and enforces protection boundaries. This model is foundational to modern OS design and underpins features like virtual memory, access control, and multitasking.
File Explorer and the user interface layer are user-facing components that provide interaction and file browsing; they are not the privileged core resource manager. "Device driver manager" is not typically the name of a single OS component; while drivers and driver subsystems exist, they operate under kernel control and are part of the kernel or closely integrated with it.
Therefore, the OS component that manages core resources while disallowing direct user access is the kernel.

NEW QUESTION # 68
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