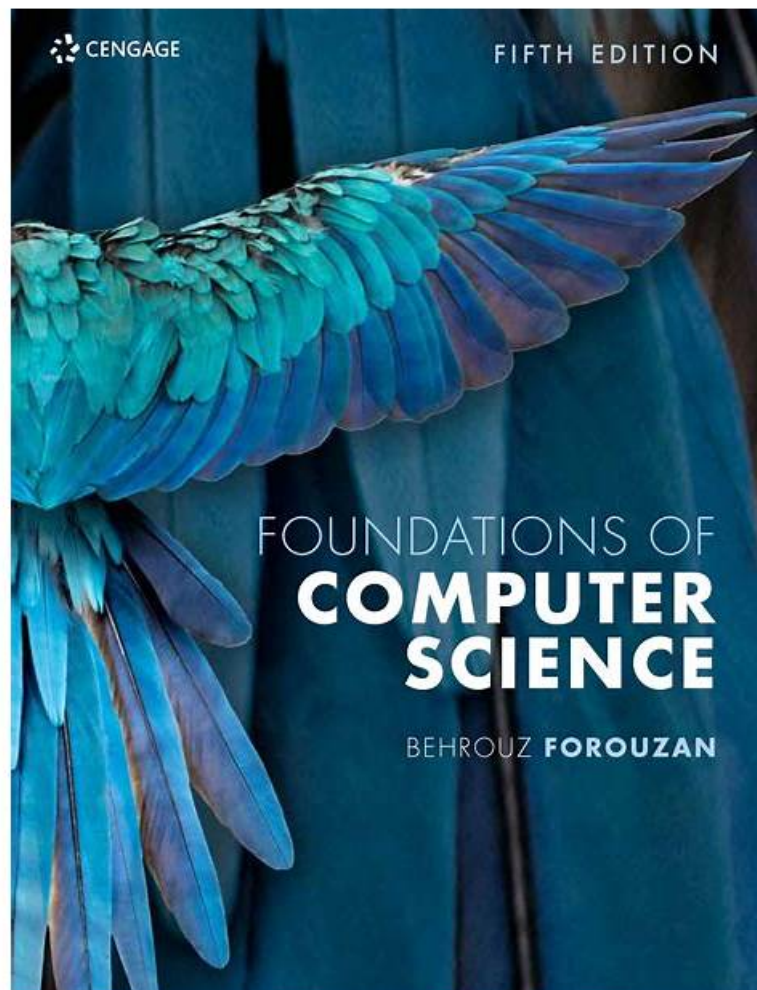


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WGU Foundations of Computer Science Sample Questions (Q64-Q69):

NEW QUESTION # 64

Which line of code below contains an error in the use of NumPy?

- A. `import numpy as np`
- B. `wgu_list = np.quicksort(arr)`
- C. `print(wgu_list)`
- D. `arr = np.array([3, 2, 0, 1])`

Answer: B

Explanation:

The NumPy library provides arrays and efficient numerical operations, including sorting. However, NumPy does not provide a function named `np.quicksort`. That is the API misuse in the code, making option A the correct answer. In NumPy, sorting is commonly performed using `np.sort(arr)` (which returns a sorted copy) or `arr.sort()` (which sorts in-place). If a specific algorithm is desired, NumPy exposes it through the `kind` parameter, such as `np.sort(arr, kind="quicksort")`, `kind="mergesort"`, or `kind="heapsort"`. Textbooks present this as a typical design: a single sorting interface with selectable strategies, rather than separate top-level functions per algorithm name.

Option C is correct and necessary: `import numpy as np` is standard convention. Option B is also correct: printing a variable is valid assuming it exists. Option D, written as `arr = np.array([3, 2, 0, 1])`, is valid NumPy usage for constructing a 1D array from a Python list.

A subtle point taught in scientific computing courses is that library APIs matter as much as syntax: you can write perfectly valid Python that still fails if you call a function that the library does not define. In this case, the fix is to replace `np.quicksort(arr)` with `np.sort(arr)` or `np.sort(arr, kind="quicksort")` depending on whether you need to specify the algorithm.

NEW QUESTION # 65

What is the expected output of calling `.shape` on a NumPy 2D array?

- A. The number of rows and columns in the 2D array
- B. The total number of elements in the array
- C. The type of elements in the array
- D. The sum of the dimensions of the array

Answer: A

Explanation:

In NumPy, every `ndarray` has a `shape` attribute that describes the size of the array along each dimension. For a 2D array, `shape` returns a tuple with two integers: (number_of_rows, number_of_columns). For example, if `a = np.array([[1, 2, 3], [4, 5, 6]])`, then `a.shape` is (2, 3), meaning 2 rows and 3 columns. This is a fundamental idea in matrix and array computing, because `shape` governs how indexing, slicing, broadcasting, and linear algebra operations behave.

Option A describes the `dtype`, which can be accessed with `a.dtype`, not `a.shape`. Option C is incorrect because `shape` provides per-dimension sizes, not their sum. Option D refers to the total number of elements, which NumPy provides via `a.size` (or equivalently `np.prod(a.shape)`).

Textbooks emphasize `shape` because many errors in numerical computing come from mismatched dimensions. For example, matrix multiplication requires compatible inner dimensions, and broadcasting rules depend on dimension sizes. By checking `shape`, programmers can verify their data layout before applying algorithms, ensuring rows represent observations and columns represent features (or vice versa). Thus, for a 2D NumPy array, `.shape` indicates the number of rows and columns.

NEW QUESTION # 66

What is the first step in the selection sort algorithm?

- A. Swap the first and last elements.
- B. Find the highest value and the lowest value in the list.
- C. Sort the list in descending order.

- D. Determine the lowest value starting from the first position.

Answer: D

Explanation:

Selection sort works by growing a sorted portion of the list one element at a time. The algorithm conceptually divides the array into two regions: a sorted prefix on the left and an unsorted suffix on the right. At the beginning, the sorted prefix is empty and the entire list is unsorted. The first step is to consider position 0 as the target location for the smallest element. The algorithm scans the unsorted region (initially the whole list) to find the smallest value and records its index. That action is exactly what option C describes: determine the lowest value starting from the first position.

After identifying the minimum element, selection sort swaps it into position 0 (if it isn't already there). Then it repeats the process for position 1, scanning the remaining unsorted suffix to find the next smallest element, swapping it into place, and so on. Textbooks emphasize that the key characteristic of selection sort is the repeated "select min (or max) from unsorted region and place it into the sorted region." Option A is not the standard first step; finding both min and max is unnecessary. Option B describes an unrelated swap that doesn't ensure progress toward sorting. Option D is not a "first step" but rather a different ordering goal; selection sort can be adapted for descending order, but the canonical version begins by selecting the minimum for the first position.

NEW QUESTION # 67

What is the name of the tool that can allow a device to run more than one operating system at a time as virtual machines?

- A. Bootloader
- B. System Restore
- C. Partition Manager
- D. Hypervisor

Answer: D

NEW QUESTION # 68

Which order is impossible when traversing a binary tree using depth first search?

- A. Post-order traversal
- B. Pre-order traversal
- C. Level-order traversal
- D. In-order traversal

Answer: C

Explanation:

Depth-first search (DFS) explores a tree by going as deep as possible along a branch before backtracking. In binary trees, DFS gives rise to the classic traversal orders pre-order, in-order, and post-order, each defined by when you "visit" the node relative to its left and right subtrees. Pre-order visits the node first, then left subtree, then right subtree. In-order visits left subtree, then the node, then right subtree. Post-order visits left subtree, then right subtree, then the node. These are all DFS-based because they fully explore subtrees before moving sideways to another branch.

Level-order traversal is different: it visits nodes layer by layer from the root outward (all nodes at depth 0, then depth 1, then depth 2, etc.). This is a hallmark of breadth-first search (BFS), not DFS. Textbooks emphasize this distinction because DFS and BFS have different properties: BFS naturally finds shortest paths in unweighted graphs and produces level-order traversal in trees, while DFS is useful for tasks like topological sorting, cycle detection, and exploring structure recursively.

Therefore, the traversal order that is impossible to produce as a depth-first traversal of a binary tree is level-order traversal. The DFS orders (pre-, in-, post-) are all achievable by depth-first strategies, typically implemented recursively or with an explicit stack.

NEW QUESTION # 69

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