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WGU Foundations of Computer Science Sample Questions (Q10-Q15):

NEW QUESTION # 10

What is the correct way to represent a boolean value in Python?

- A. true
- **B. True**
- C. "True"

- D. "true"

Answer: B

Explanation:

Python has a built-in boolean type named `bool`, which has exactly two values: `True` and `False`. These are language keywords/constants and are case-sensitive. Therefore, the correct representation of a boolean value is `True` (capital T, lowercase rest) or `False` (capital F). This is consistently taught in introductory programming textbooks because it affects conditional statements (`if`, `while`), logical operations (`and`, `or`, `not`), and comparisons.

Option A, `"True"`, is a string literal, not a boolean. While it visually resembles the boolean constant, it behaves differently: non-empty strings are "truthy" in conditions, but `"True" == True` is false because they are different types (`str` vs `bool`). Option B, `"true"`, is also a string, and it differs in casing as well. Option D, `true`, is not valid in Python; it will raise a `NameError` unless a variable named `true` has been defined.

Textbooks also stress that boolean values often result from comparisons, such as `x > 0`, and that booleans are a subtype of integers in Python (`True` behaves like 1 and `False` like 0 in arithmetic contexts). Still, their primary use is representing logical truth values for control flow and decision-making.

NEW QUESTION # 11

What is the likely cause if a default Python configuration does not recognize a NumPy array as an allowed data structure?

- A. The Python version is outdated.
- **B. The NumPy package is not present.**
- C. The Python interpreter is misconfigured.
- D. The array module is not imported.

Answer: B

Explanation:

NumPy arrays are not a built-in Python data structure. In a default Python installation, the interpreter includes core types such as `int`, `float`, `str`, `list`, `tuple`, `dict`, and `set`, plus the standard library. A NumPy array, typically created as `numpy.ndarray`, is provided by the third-party NumPy library. Therefore, if a "default Python configuration" does not recognize a NumPy array, the most likely cause is that NumPy is not installed or not available in the active environment. This happens often when a user has multiple Python environments (system Python, virtual environments, conda environments) and installs NumPy into one environment while running code in another.

Option B is incorrect because Python's standard-library array module is different from NumPy. Importing `array` does not create or enable NumPy's `ndarray` type. Option C is possible in rare cases, but the typical, textbook-aligned explanation is missing dependencies rather than an incorrectly configured interpreter. Option D is also unlikely: while very old Python versions may cause compatibility issues with modern NumPy releases, the symptom described—NumPy arrays not being recognized at all—more directly indicates the package is absent in the running environment.

In practice, verifying `import numpy` and checking the installed packages for the current interpreter resolves the issue.

NEW QUESTION # 12

What is an ndarray in Python?

- A. A built-in Python data array used to store collections of items.
- B. A module that provides network socket functions similar to XML.
- **C. An n-dimensional array object provided by the NumPy library.**
- D. A native Python object that represents a tree-like hierarchical data structure.

Answer: C

Explanation:

An ndarray is NumPy's fundamental data structure: an n-dimensional array designed for efficient numerical computation. The term stands for "N-dimensional array," and it is implemented as `numpy.ndarray`. Unlike Python's built-in `list`, an ndarray stores elements in a compact, homogeneous format defined by its `dtype` (such as integers or floating-point numbers). This uniform representation enables fast, vectorized operations and efficient use of memory, which is why ndarray is central in scientific computing and data analysis.

An ndarray supports multiple dimensions: a 1D array behaves like a vector, a 2D array like a matrix (rows and columns), and higher-dimensional arrays represent tensors. Textbooks emphasize that ndarray operations are typically element-wise by default (for

example, `a + b` adds corresponding elements), and that slicing and broadcasting allow powerful computations without explicit loops. This approach is both expressive and efficient because the heavy lifting happens in optimized low-level code. Option A is incorrect because `ndarray` is not built into core Python; it comes from NumPy. Option B describes a tree, which is a different data structure entirely. Option D is incorrect because sockets and XML-related functionality belong to other parts of Python's standard library, not to NumPy or `ndarray`. In short, an `ndarray` is the primary array object of NumPy, providing high-performance multi-dimensional numerical storage and computation.

NEW QUESTION # 13

Which method converts the default smallest-to-largest index order of a list to instead be the opposite?

- A. `flip()`
- B. `reverse()`
- C. `invert()`
- D. `sortDescending()`

Answer: B

Explanation:

Python lists maintain an order, and sometimes you need to reverse that order so the last element becomes first and the first becomes last. The standard list method for reversing the elements in place is `reverse()`. For example, if `nums = [1, 2, 3, 4]`, then `nums.reverse()` mutates the list so it becomes `[4, 3, 2, 1]`. This is a built-in operation taught in introductory programming texts because it is efficient and conceptually simple: it does not create a new list unless you explicitly copy the data.

It is important to distinguish reversing from sorting. Reversing changes the sequence order as-is, while sorting rearranges elements according to comparisons. The question refers to converting the index order to the opposite, which is reversing. If you wanted descending sorted order, you would typically use `sort(reverse=True)` or `sorted(nums, reverse=True)`. But the direct method that reverses the list's order is `reverse()`.

The other options are not standard Python list methods. `sortDescending()`, `flip()`, and `invert()` are not part of Python's built-in list API. Textbooks emphasize learning the correct method names because Python's standard library provides a consistent, widely used interface across programs. Thus, `reverse()` is the correct answer for reversing the index order of a list.

NEW QUESTION # 14

Which sorting algorithm works by finding the smallest or largest element in an unsorted part of a list and moving it to the sorted part of the list?

- A. Quicksort
- B. Heap sort
- C. Radix sort
- D. Selection sort

Answer: D

Explanation:

Selection sort is defined by a simple repeated strategy: divide the list into a sorted region and an unsorted region, then repeatedly select the smallest (or largest) element from the unsorted region and move it to the end of the sorted region. In the common "smallest-first" version, the algorithm scans the unsorted portion to find the minimum element, then swaps it into the next position in the sorted portion. After the first pass, the smallest element is fixed at index 0; after the second pass, the second-smallest is fixed at index 1; and so on until the entire list is sorted.

This exactly matches the description in the question, making selection sort the correct answer. Textbooks often use selection sort to teach algorithmic thinking because it is easy to understand and implement, though not efficient for large datasets. Its time complexity is $O(n^2)$ in the average and worst case because it performs roughly n scans of progressively smaller unsorted sections, with each scan taking linear time. Its space usage is $O(1)$ additional space because it sorts in place using swaps.

The other options do not match the described mechanism. Quicksort partitions around a pivot, heap sort uses a heap data structure to repeatedly extract the maximum/minimum, and radix sort processes digits/keys by place value rather than selecting minima by scanning. Selection sort's defining action is the repeated "select the min/max and place it."

NEW QUESTION # 15

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