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### WGU Foundations of Computer Science Sample Questions (Q68-Q73):

#### NEW QUESTION # 68

What is the alternative way to access the third element of the first row in np\_2d?

- A. np\_2d[1, 3]
- B. np\_2d[0, 2]
- C. np\_2d[2, 0]
- D. np\_2d[3, 1]

**Answer: B**

Explanation:

NumPy arrays use zero-based indexing, meaning counting starts at 0 rather than 1. In a 2D NumPy array, indexing is typically

written in the form `array[row_index, column_index]`. The first index selects the row, and the second index selects the column. Therefore, the "first row" corresponds to row index 0. Within that row, the "third element" corresponds to column index 2, because the columns are indexed 0, 1, 2, 3, and so on.

So, `np_2d[0, 2]` directly selects the element at row 0 and column 2, which is the third element in the first row.

This is considered an "alternative" to approaches like two-step indexing (`np_2d[0][2]`), and it is the standard idiom taught for multi-dimensional NumPy arrays.

The other choices point to different locations. `np_2d[1, 3]` is the fourth element of the second row, not the third element of the first row. `np_2d[2, 0]` and `np_2d[3, 1]` attempt to access the third or fourth row, which would often be out of bounds in a small 2-row example and would raise an `IndexError`. Correct indexing is a cornerstone of array programming because it determines which observation, feature, or matrix entry your computations will use.

### NEW QUESTION # 69

What is the correct way to convert an integer to a string in Python?

- A. `tostring(variable)`
- B. `str(variable)`
- C. `int_to_str(variable)`
- D. `string(variable)`

**Answer: B**

Explanation:

Python provides built-in type conversion functions that construct a value of a target type from a supplied object when possible. To convert an integer to a string, Python uses the constructor function `str()`. For example, `str(42)` produces the string "42". This operation is fundamental in programming textbooks because it enables tasks like formatting output, concatenating numbers into messages, building file names, or preparing numeric values for text-based storage and transmission.

Python distinguishes clearly between numeric types (`int`, `float`) and text type (`str`). You cannot concatenate an integer directly with a string (e.g., `"Age: " + 30` raises a `TypeError`) because the types are different. Using `str(30)` resolves this by converting the integer into its string representation: `"Age: " + str(30)` becomes valid.

Modern Python commonly uses f-strings (`f"Age: {30}"`), which perform conversion automatically, but `str()` remains the canonical and explicit method.

Options A, B, and C are not standard Python built-ins for conversion. While some libraries define helper functions with similar names, the language's standard approach is `str(...)`. Textbooks also highlight that `str()` is not limited to integers: it can convert many objects into readable string representations, often by invoking the object's `__str__` method. This ties conversion to Python's object model and supports consistent display and logging across programs.

### NEW QUESTION # 70

How does the data type of a variable get set in Python?

- A. It is chosen randomly.
- B. It is always set to string by default.
- C. It is determined by the value assigned to it.
- D. It is explicitly declared by the programmer.

**Answer: C**

Explanation:

Python uses dynamic typing, a core concept emphasized in programming language textbooks. In dynamically typed languages, a variable name does not permanently "own" a type. Instead, the object created by an expression has a type, and the variable becomes a reference to that object. Therefore, the type associated with a variable at any moment is determined by the value assigned to it. For example, after `x = 7`, `x` refers to an integer object. After `x = "seven"`, the same name now refers to a string object. The type changes because the binding changes, not because the variable's type declaration was edited.

Option A describes static typing systems (common in languages like Java, C, or C++), where programmers declare types and compilers enforce them. Python does not require such declarations for ordinary variables.

Option B is incorrect because type assignment is deterministic, not random. Option C is incorrect because Python does not default variables to strings; it assigns whatever type results from the right-hand-side expression.

This model is closely tied to Python's runtime behavior: type checks occur during execution, and functions can accept values of different types as long as the operations used are valid (often discussed as "duck typing"). This flexibility supports rapid development, but also motivates careful testing and, in larger systems, optional type

hints for documentation and tool support.

### NEW QUESTION # 71

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

**Answer: B**

Explanation:

A hypervisor is the software layer that enables virtualization—running multiple operating systems concurrently on the same physical hardware as separate, isolated virtual machines (VMs). Operating systems textbooks describe the hypervisor as managing and multiplexing core hardware resources such as CPU, memory, storage, and I/O devices among multiple guest operating systems. Each VM behaves as if it has its own hardware, while the hypervisor enforces isolation and schedules resource usage.

Hypervisors come in two broad categories. Type 1 (bare-metal) hypervisors run directly on the hardware (common in data centers), while Type 2 (hosted) hypervisors run as applications on top of a host OS (common on desktops). In both cases, the hypervisor is the key tool that makes "more than one OS at a time" possible.

System Restore is a recovery feature, not a virtualization platform. A partition manager can split a disk into multiple partitions, which can support dual-boot setups, but that runs only one OS at a time, not concurrently as VMs. A bootloader selects which OS to start at boot time; again, that is not simultaneous virtualization. Therefore, the correct tool that allows running multiple operating systems simultaneously as virtual machines is the hypervisor.

### NEW QUESTION # 72

How is a NumPy array named `data` with 6 elements reshaped into a 2x3 array?

- A. `data_reshape[2, 3]`
- B. `data.set_shape(2, 3)`
- **C. `np.reshape(data, (2, 3))`**
- D. `np_reshape(list, (2, 3))`

**Answer: C**

Explanation:

Reshaping is the operation of changing the "view" of an array so that the same elements are arranged with new dimensions. In NumPy, reshaping is possible when the total number of elements stays the same. A 2x3 array contains 6 elements, so a 1D array `data` of length 6 can be reshaped into shape `(2, 3)` without adding or removing values. Textbooks stress this invariant: the product of the dimensions must equal the original size.

NumPy provides two standard reshaping interfaces: the function `np.reshape(data, (2, 3))` and the method `data`.

`reshape(2, 3)` (or `data.reshape((2, 3))`). Option A is correct because it uses the official NumPy function with the proper arguments: the original array and the target shape. The shape is passed as a tuple describing rows and columns.

Option B is incorrect because `np_reshape` is not the correct NumPy function name, and it references an unrelated identifier `list`.

Option C is incorrect because NumPy arrays do not provide a `set_shape` method like that. Option D is not valid NumPy syntax for reshaping.

Reshaping is fundamental in data analysis and machine learning: it converts flat vectors into matrices, prepares batches of samples, and aligns dimensions for matrix multiplication and broadcasting.

### NEW QUESTION # 73

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