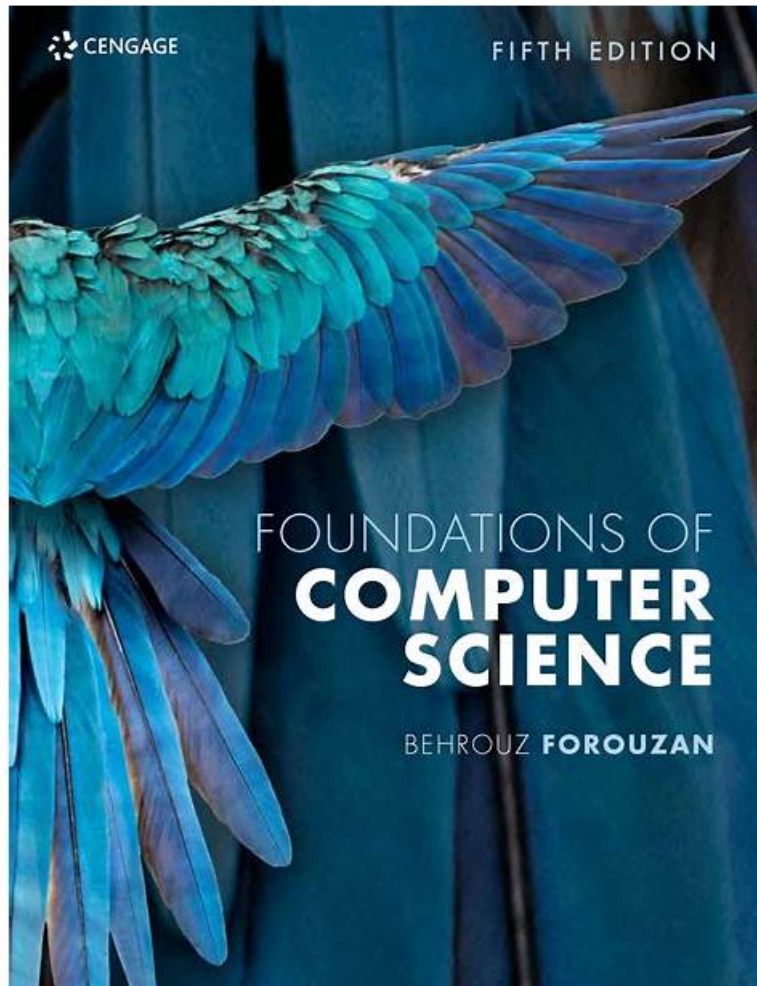


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WGU Foundations of Computer Science Sample Questions (Q27-Q32):

NEW QUESTION # 27

Which aspect is excluded from a NumPy array's structure?

- A. The encryption key of the array
- B. The data type or dtype pointer
- C. The shape of the array
- D. The data pointer

Answer: A

Explanation:

A NumPy ndarray is designed for efficient numerical computing, and its structure is defined by metadata required to interpret a contiguous (or strided) block of memory as an n-dimensional array. Textbooks and NumPy's own conceptual model describe key components such as: adata buffer(where the raw bytes live), a data pointer(reference to the start of that buffer), thedtype(which specifies how to interpret each element's bytes-e.g., int32, float64), theshape(the size in each dimension), andstrides(how many bytes to step in memory to move along each dimension). Together, these allow fast indexing, slicing, and vectorized operations without Python-level loops.

Options A, B, and C are all part of what an array must track to function correctly: the array must know where its data is, how it is laid out (shape/strides), and how to interpret bytes (dtype). In contrast, an encryption key is not a concept that belongs to the internal representation of a numerical array. Encryption is a security mechanism applied at storage or transport layers (for example, encrypting a file on disk or encrypting data sent over a network), not something built into the in-memory structure of a NumPy array object.

Therefore, the aspect excluded from a NumPy array's structure is the encryption key.

NEW QUESTION # 28

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 type of elements in the array
- C. The total number 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 # 29

```
print(20 # 5)
```

What will the output be of this line?

- A. 20 + 5
- B. no output
- C. Syntax Error

- D. #25

Answer: B

Explanation:

In Python, the # character begins a comment. Everything from # to the end of the line is ignored by the interpreter and is not executed. Therefore, the line # print(20 # 5) produces no output because it is a comment, not an executable statement. This is a standard concept in programming language textbooks: comments are for humans, not for the machine, and they are used to document code, explain intent, temporarily disable statements during debugging, or leave notes about assumptions and design choices.

Even though the line contains an unusual symbol #, it does not matter here, because the interpreter never tries to parse the commented text. If the # were removed, then Python would attempt to parse print(20 # 5), and since # is not a valid Python operator, that would indeed trigger a syntax error. But with the leading #, the entire line is inert.

Option A is incorrect because nothing is evaluated. Option C is incorrect because comments are not printed; they remain only in the source code. Option D is incorrect for the commented version of the line, since Python does not check comment contents for syntax. Thus, the correct result is no output.

NEW QUESTION # 30

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

- A. np_2d[3, 1]
- B. np_2d[4, 1]
- C. np_2d[1, 3]
- D. np_2d[0, 4]

Answer: C

Explanation:

In a 2D NumPy array, indexing is written as array[row_index, column_index] using zero-based indices. The array np_2d = np.array([[1, 2, 3, 4], [10, 20, 30, 40]]) has two rows (indices 0 and 1) and four columns (indices 0, 1, 2, 3). The value 40 is located in the second row and the fourth column. Using zero-based indexing, that corresponds to row index 1 and column index 3. Therefore, np_2d[1, 3] returns 40.

Option A attempts to access row 3, which does not exist and would raise an IndexError. Option C attempts to access column 4 in row 0, but valid column indices are only 0 through 3, so it would also error. Option D likewise refers to a non-existent row 4. Only option B uses valid indices and points to the correct location.

Textbooks emphasize multi-dimensional indexing because it underlies matrix operations, dataset manipulation, and feature extraction in data science. Correctly interpreting rows and columns is essential when rows represent observations (like people) and columns represent attributes (like age, weight, height). This question tests precise control over row/column addressing, which prevents subtle bugs in numerical analysis.

NEW QUESTION # 31

What is a key advantage of using NumPy when handling large datasets?

- A. Interactive visualizations
- B. Automatic data cleaning
- C. Efficient storage and computation
- D. Built-in machine learning algorithms

Answer: C

Explanation:

NumPy's key advantage for large datasets is efficient storage and fast computation. Unlike Python lists, which store references to objects and can have per-element overhead, NumPy arrays store data in a compact, homogeneous format (single dtype) in contiguous or strided memory. This reduces memory usage and improves cache locality, which is crucial for performance on large arrays. Additionally, NumPy operations are vectorized: many computations run in optimized compiled code rather than interpreted Python loops. This enables large speedups for arithmetic, linear algebra, statistics, and transformations over entire arrays.

Option A is incorrect because NumPy itself does not provide full machine learning algorithms; those are typically found in libraries like scikit-learn, though they build on NumPy. Option B is incorrect because NumPy does not automatically clean data; data

cleaning is usually done with pandas or custom logic. Option D is incorrect because interactive visualizations are typically handled by libraries like matplotlib, seaborn, or plotly, not by NumPy.

Textbooks in scientific computing highlight that NumPy forms the computational foundation of the Python data ecosystem. Its array model supports broadcasting, slicing, and efficient aggregations, all of which are essential when working with millions of numeric values. By combining compact memory layout with compiled numerical kernels, NumPy enables scalable analysis and simulation workloads that would be slow or memory-heavy using pure Python lists.

NEW QUESTION # 32

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