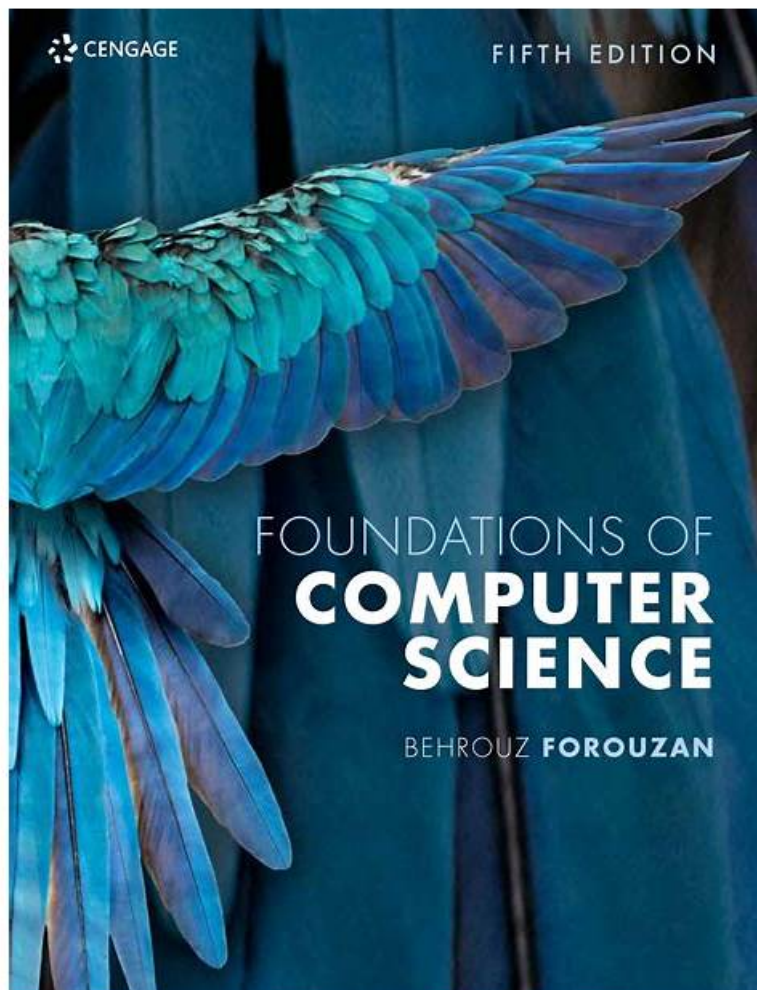


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While attempting the exam, take heed of the clock ticking, so that you manage the WGU Foundations-of-Computer-Science Questions in a time-efficient way. Even if you are completely sure of the correct answer to a question, first eliminate the incorrect

ones, so that you may prevent blunders due to human error.

WGU Foundations of Computer Science Sample Questions (Q39-Q44):

NEW QUESTION # 39

Which action is taken if the first number is the lowest value in a selection sort?

- A. It swaps the selected element with the last unsorted element.
- B. The first number is duplicated.
- C. The first number is increased by one.
- **D. It swaps the selected element with the first unsorted element.**

Answer: D

Explanation:

Selection sort works by maintaining a boundary between a sorted prefix and an unsorted suffix. On each pass, the algorithm finds the smallest value in the unsorted portion and places it into the first position of that unsorted portion (which is also the next position in the sorted prefix). This is usually done by swapping the element at the minimum's index with the element at the boundary index (the "first unsorted element"). That description matches option D.

If the first element of the unsorted portion is already the smallest, then the minimum's index equals the boundary index. In textbook implementations, the algorithm may still execute a swap operation, but it becomes a swap of an element with itself (a no-op), leaving the array unchanged. Many implementations include a small optimization: perform the swap only if the minimum index differs from the boundary index.

Either way, conceptually the "action taken" by selection sort is still "swap the selected minimum into the first unsorted position," which is exactly what option D states.

Options A and B are unrelated to sorting; selection sort never increases or duplicates values. Option C is incorrect because selection sort swaps the minimum with the first unsorted element, not the last. After the swap (or no-op), the sorted region grows by one element, and the algorithm repeats from the next boundary position.

This logic is fundamental for understanding how selection sort ensures correctness: after pass i , the smallest $i+1$ elements are fixed in their final positions.

NEW QUESTION # 40

Which principle can be used to implement an algorithm to calculate factorial or Fibonacci sequence?

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

Answer: A

Explanation:

Factorial and Fibonacci are classic examples used to teach recursion, a technique where a function solves a problem by calling itself on smaller subproblems. The key requirement for recursion is (1) a base case that stops further calls and (2) a recursive case that 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 # 41

The `np_2d` array stores information about multiple family members. Each row represents a different person, and the columns store

family member attributes in the following order:

Age (years)

Weight (pounds)

Height (inches)

How is the weight of all family members selected from the np_2d array?

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

Answer: A

Explanation:

In a 2D NumPy array, rows and columns represent different dimensions of the data. The indexing form array [row_selection, column_selection] allows you to select entire rows, entire columns, or submatrices. The slice : means "all indices along this dimension." Since each row corresponds to a family member (a person), selecting weights for all family members means selecting all rows for the weight column.

The problem states the columns are ordered as: Age (column 0), Weight (column 1), Height (column 2).

Therefore, the weight column has index 1. The expression np_2d[:, 1] uses : to take every row and 1 to take the second column, producing a 1D array (or a column view) containing the weight values for all people.

Option A, np_2d[:, 2], would select the height column, not weight. Option C, np_2d[2, :], selects the third row (the third person) and all columns-age, weight, and height for just that one person. Option D, np_2d[1, :], selects the second person's entire row.

This column selection technique is fundamental in data analysis because datasets are often stored as

"rows = observations, columns = features," and extracting a feature vector is a frequent operation before computing statistics or building models.

NEW QUESTION # 42

Which brand of Type 1 hypervisor is commonly used to create virtual machines?

- A. VirtualBox
- B. VMware ESXi
- C. VMware Workstation
- D. Parallels Desktop

Answer: B

Explanation:

A Type 1 hypervisor, also called bare-metal hypervisor, runs directly on the host machine's hardware rather than on top of a general-purpose operating system. This design is widely described in virtualization textbooks because it improves performance and isolation: the hypervisor controls CPU scheduling, memory management, and I/O virtualization with minimal overhead from an intermediate OS layer. Type 1 hypervisors are therefore common in servers and data centers.

Among the options, VMware ESXi is the well-known Type 1 hypervisor product. It is installed directly onto physical server hardware and provides the virtualization layer used to run multiple virtual machines. In contrast, Parallels Desktop, VirtualBox, and VMware Workstation are typically categorized as Type 2 hypervisors, meaning they run as applications on top of a host operating system like Windows, macOS, or Linux. Type 2 hypervisors are excellent for desktops, development, testing, and learning, but they generally rely on the host OS for device drivers and resource management, which can add overhead.

This distinction matters in practice: data centers favor Type 1 hypervisors for efficiency, centralized management, and robust isolation between workloads. Desktop users often choose Type 2 hypervisors for convenience and easier installation. Therefore, the commonly used Type 1 hypervisor brand listed here is VMware ESXi.

NEW QUESTION # 43

What is another term for the inputs into a function?

- A. Outputs
- B. Variables
- C. Arguments
- D. Procedures

Answer: C

Explanation:

In programming, a function takes inputs, performs computation, and may return an output. The standard term for a function's inputs is arguments (also commonly discussed alongside the closely related term parameters).

Textbooks typically distinguish the two: parameters are the names listed in the function definition, while arguments are the actual values supplied when the function is called. For example, in `def f(x, y):`, `x` and `y` are parameters. In the call `f(3, 5)`, 3 and 5 are arguments.

Many introductory materials use "arguments" informally to refer to the inputs overall, which matches the wording of this question.

Options A, B, and C do not fit the textbook definition. "Variables" is too broad; inputs can be literals, expressions, or variables, but the conceptual role is "arguments." "Procedures" are callable units of code (often used in some languages to mean functions without return values), not the inputs. "Outputs" refers to returned results, not what you pass in.

Understanding arguments is important because it connects to call semantics, scope, and correctness.

Different languages support positional arguments, keyword arguments, default values, and variadic arguments (e.g., `*args`, `**kwargs` in Python). This flexibility shapes API design and influences how programmers structure reusable code.

NEW QUESTION # 44

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