

Bachelor of Science in Computer Science Practice Test Questions and Answers

1. What is the time complexity of binary search in a sorted array?

- A) $O(n)$
- B) $O(\log n)$
- C) $O(n^2)$
- D) $O(n \log n)$

2. Which data structure follows the Last In, First Out (LIFO) principle?

- A) Queue
- B) Stack
- C) Linked List
- D) Binary Tree

3. In object-oriented programming, what is encapsulation?

- A) Creating multiple instances of a class
- B) Hiding internal implementation details from outside access
- C) Inheriting properties from a parent class
- D) Overloading methods with different parameters

4. What is the purpose of a compiler in programming?

- A) To execute code line by line
- B) To translate source code into machine code
- C) To debug runtime errors
- D) To manage memory allocation

Answers: 1-B 2-B 3-B 4-B

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