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General Questions

Practice Questions

Q1. What is the time complexity of the best-case scenario for Quick Sort?

A. O(n)
B. O(n log n)
C. O(n^2)
D. O(log n)

Solution: The best-case time complexity of Quick Sort is O(n log n) when the pivot divides the array into two equal halves.

Q2. Which of the following is a characteristic of the Merge Sort algorithm?

A. In-place sorting
B. Not stable
C. Divides the array into halves
D. Uses a single loop

Solution: Merge Sort divides the array into halves recursively until it reaches individual elements, then merges them back together.

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