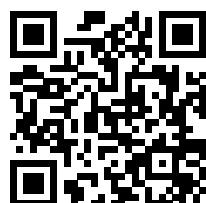




SoulShift - Educational Q&A Platform

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.



