



# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



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**Q1. What is the average time complexity of Quick Sort?**

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

*Solution: The average time complexity of Quick Sort is  $O(n \log n)$  due to its divide-and-conquer approach.*

**Q2. In Quick Sort, what is the role of the pivot?**

- A. To divide the array
- B. To sort the array
- C. To merge the array
- D. To find the maximum element

*Solution: In Quick Sort, the pivot is used to divide the array into two parts: elements less than the pivot and elements greater than the pivot.*



