



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

### **General Questions**

Practice Questions



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**Q1. In which scenario is Quick Sort generally preferred over Merge Sort?**

- A. When memory usage is a concern
- B. When the data is nearly sorted
- C. When stability is required
- D. When the data is small

*Solution: Quick Sort is generally preferred over Merge Sort when memory usage is a concern, as it is an in-place sorting algorithm.*

**Q2. What is the best-case time complexity of Insertion Sort?**

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

*Solution: The best-case time complexity of Insertion Sort is  $O(n)$  when the array is already sorted.*



