



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

## **General Questions**

Practice Questions



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**Q1. What is the space complexity of Quick Sort in the average case?**

- A.  $O(1)$
- B.  $O(n)$
- C.  $O(\log n)$
- D.  $O(n \log n)$

*Solution: The average space complexity of Quick Sort is  $O(\log n)$  due to the recursive stack space used during the sorting process.*

**Q2. Which of the following is a real-world application of Heap Sort?**

- A. Database sorting
- B. Real-time systems
- C. Memory management
- D. All of the above

*Solution: Heap Sort is used in various real-world applications including database sorting, real-time systems, and memory management due to its efficiency.*



