



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

### **General Questions**

Practice Questions



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**Q1. What is the time complexity of enqueue and dequeue operations in a queue implemented using a linked list?**

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

*Solution: Both enqueue and dequeue operations can be performed in constant time  $O(1)$  in a linked list implementation.*

**Q2. What is the time complexity of searching for an element in an unsorted linked list?**

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

*Solution: Searching in an unsorted linked list requires traversing the list, leading to  $O(n)$  time complexity.*



