



SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. What is the space complexity of a queue implemented using a linked list?

- A. $O(1)$
- B. $O(n)$
- C. $O(\log n)$
- D. $O(n^2)$

Solution: The space complexity of a queue implemented using a linked list is $O(n)$, where n is the number of elements in the queue.

Q2. What is the time complexity of finding the maximum element in a binary heap?

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

Solution: Finding the maximum element in a binary max-heap can be done in constant time, hence $O(1)$.



