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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).

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