



SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. Which property must a Red-Black Tree satisfy?

- A. Every node is either red or black
- B. The root must be red
- C. All leaves must be red
- D. Every red node must have two black children

Solution: In a Red-Black Tree, every node must be either red or black, which helps maintain balance.

Q2. What is the time complexity of performing a level-order traversal on a Red-Black Tree?

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

Solution: A level-order traversal of a Red-Black Tree visits each node once, resulting in a time complexity of $O(n)$.



