SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. Which of the following is a valid sequence of colors for a Red-Black tree?

A. Red, Red, Black
B. Black, Red, Black
C. Red, Black, Red
D. Black, Black, Red

Solution: The sequence Black, Red, Black is valid as it adheres to the Red-Black tree properties.

Q2. Which operation is guaranteed to take O(log n) time in a Red-Black tree?

A. Insertion
B. Deletion
C. Search
D. All of the above

Solution: All of the operations: insertion, deletion, and search are guaranteed to take O(log n) time in a Red-Black tree.

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