



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

### **General Questions**

Practice Questions



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**Q1. How do you perform a left rotation in an AVL tree?**

- A. By moving the right child up and the current node down.
- B. By moving the left child up and the current node down.
- C. By swapping the current node with its parent.
- D. By reversing the tree structure.

*Solution: A left rotation involves moving the right child of a node up to take its place, while the current node becomes the left child of the new root.*

**Q2. What is the main advantage of using Red-Black trees over AVL trees?**

- A. Faster search times.
- B. Less strict balancing, leading to faster insertions and deletions.
- C. Easier implementation.
- D. More memory usage.

*Solution: Red-Black trees allow for less strict balancing compared to AVL trees, which can lead to faster insertions and deletions.*



