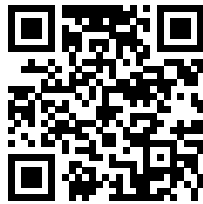




# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



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**Q1. What is the time complexity of a depth-first search (DFS) on a tree?**

- A.  $O(V)$
- B.  $O(E)$
- C.  $O(V + E)$
- D.  $O(n \log n)$

*Solution: DFS visits each vertex once, resulting in a time complexity of  $O(V)$  for trees.*



