SoulShift

# SoulShift – Educational Q&A Platform

## General Questions

Practice Questions

**Q1. What is the time complexity of Dijkstra's algorithm when using a priority queue implemented with a binary heap?**

A. O(V^2)
B. O(E log V)
C. O(V log V)
D. O(E + V)

*Solution: The time complexity of Dijkstra's algorithm using a binary heap is O(E log V), where E is the number of edges and V is the number of vertices.*

**Q2. What will happen if Dijkstra's algorithm is run on a graph with negative weight edges?**

A. It will still find the shortest path.
B. It may produce incorrect results.
C. It will terminate with an error.
D. It will only work for the first negative edge.

*Solution: Dijkstra's algorithm may produce incorrect results if there are negative weight edges in the graph.*

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