SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. Which of the following applications can Dijkstra's algorithm be used for?

A. Finding the minimum spanning tree
B. Routing in computer networks
C. Sorting a list of numbers
D. Searching for an element in a database

Solution: Dijkstra's algorithm is commonly used in routing algorithms for computer networks to find the shortest path for data packets.

Q2. In which scenario would you prefer using Dijkstra's algorithm over A* search algorithm?

A. When you need to find the shortest path in a grid
B. When the heuristic is not available
C. When the graph has negative weights
D. When you need to find all paths

Solution: Dijkstra's algorithm is preferred when there is no heuristic available, as A relies on heuristics to guide its search.*

SoulShift

SoulShift – Educational Q&A Platform © 2024–2025 | Licensed for individual use only | SS-36C15D65