



SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. If a graph has 5 vertices and 7 edges, what is the maximum number of edges in a simple undirected graph?

- A. 10
- B. 12
- C. 15
- D. 20

Solution: In a simple undirected graph, the maximum number of edges is given by the formula $V(V-1)/2$. For 5 vertices, it is $5(5-1)/2 = 10$.

Q2. What is the main disadvantage of Dijkstra's algorithm?

- A. It is not optimal
- B. It requires a lot of memory
- C. It cannot handle negative weights
- D. It is too slow for large graphs

Solution: The main disadvantage of Dijkstra's algorithm is that it cannot handle graphs with negative weight edges, which can lead to incorrect results.



