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General Questions

Practice Questions

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

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

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

Q2. Which algorithm can be used as an alternative to Dijkstra's algorithm for graphs with negative weights?

A. Prim's algorithm
B. Kruskal's algorithm
C. Bellman-Ford algorithm
D. A* algorithm

Solution: The Bellman-Ford algorithm can be used to find the shortest paths in graphs with negative weight edges.

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