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General Questions

Practice Questions

Q1. Which of the following is NOT a typical application of Dijkstra's algorithm?

A. GPS navigation systems
B. Network routing protocols
C. Finding the maximum element in an array
D. Flight scheduling

Solution: Finding the maximum element in an array is not an application of Dijkstra's algorithm, which is focused on shortest path problems.

Q2. If a graph has 5 vertices and 7 edges, what is the maximum number of edges it can have?

A. 10
B. 15
C. 20
D. 25

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

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