



SoulShift - Educational Q&A Platform

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 $5(5-1)/2 = 10$.



