



## **SoulShift - Educational Q&A Platform**

### **General Questions**

Practice Questions



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



