

## DSA - Graph Quiz (Easy)

**Q1. What are the two fundamental components of a graph data structure?**

- A) Nodes and Leaves
- B) Vertices and Edges
- C) Keys and Values
- D) Stacks and Queues

**Q2. In an undirected graph, if an edge exists between vertex U and vertex V, it means:**

- A) You can only go from U to V
- B) You can only go from V to U
- C) You can go from U to V and from V to U
- D) The graph is a tree

**Q3. Which of these is a common way to represent a graph in memory?**

- A) A single linked list
- B) A binary search tree
- C) An adjacency matrix
- D) A stack

**Q4. What does the 'degree' of a vertex in an undirected graph represent?**

- A) The number of edges connected to the vertex
- B) The total number of vertices in the graph
- C) The value stored inside the vertex
- D) The distance from the starting vertex

**Q5. BFS and DFS are two common algorithms for what purpose in a graph?**

- A) Sorting the vertices
- B) Finding the shortest path
- C) Traversing or searching the graph
- D) Deleting edges from the graph

### Answer Key:

- Q1: B
- Q2: C
- Q3: C
- Q4: A
- Q5: C