Shortest distances in a graph

For each type of graph, choose the fastest algorithm which finds the shortest distances from a start vertex to all other vertices in the graph.

	Breadth-first search	Dijkstra	Topological sort	Bellman-Ford
No negative edges				
Weighted DAG				
Unweighted				
No negative cycles				

- Unweighted: an unweighted graph. The graph is either directed or undirected.
- Weighted DAG: a weighted, directed acyclic graph. The edges may have negative weights.
- No negative edges: the graph is weighted, but no edge has negative weights. The graph is either directed or undirected.
- No negative cycles: the graph is weighted, but contains no cycle of negative weight. The graph is either directed or undirected.