For each of the following graph search strategies, work out the order in which states are expanded/visited, as well as the path returned by the graph search. In all cases, assume ties resolve in such a way that states with earlier alphabetical order are expanded first. The start and goal state can be treated as S and G, respectively.

1. Depth-first search.

2. Breadth-first search.

3. Uniform Cost search.

4. Iterative-deepening search.