



1. What is the number of edges between the two cities that are farthest from each other (for this question, ignore the distances mentioned and assume all edges to have the same weightage)?
2. In the given map, you need to find a path from Sibiu to Hirsova that requires the least number of edges. How many edges does this path have?
3. In the given map, you need to find a path from Sibiu to Hirsova that requires the least number of edges. What is the total distance along this path?
4. If you want to find a path from Sibiu to Bucharest using Breadth-First Search, what is the minimum number of nodes that you may have to check to evaluate whether it's a goal state or not (ignore the starting node for this calculation, and while expanding the search tree from a node in the graph, ignore its immediate parent in the tree)?
5. If you want to find a path from Sibiu to Bucharest using Breadth-First Search, what is the maximum number of nodes that you may have to check to evaluate whether it's a goal state or not (ignore the starting node for this calculation, and while expanding the search tree from a node in the graph, ignore its immediate parent in the tree)?
6. What is the distance of the path from Sibiu to Lugoj found using Greedy best-first search (assume that the given graph is to scale)?