Exercise 1\(^1\) (10 points)

Trace the operation of A* search applied to the problem of getting to Bucharest from Lugoj using the straight-line distance heuristic. That is, show the sequence of nodes that the algorithm will consider and the f, g, and h score for each node. (See the lecture for the definition of A*)

![A simplified road map of part of Romania.](image)


\(^1\) Exercise from Russel/Norvig