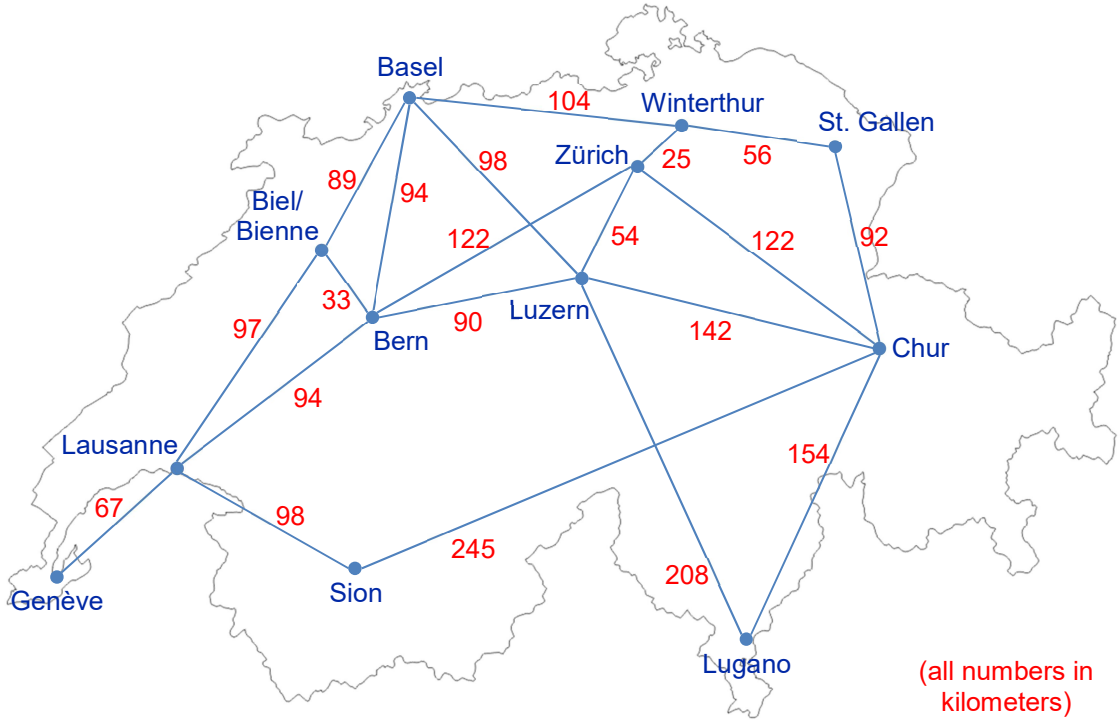
# Example Minimum Spanning Tree (Prim-Jarník Algorithm)

Consider the following distance map of Switzerland. The information in this map can be represented in a graph.




**0.** (optional) Draw the adjacency list representation and / or the adjacency matrix representation of the graph corresponding to the above map. Is it a directed or an undirected graph?

**1.** Apply the Prim-Jarník algorithm to obtain a minimum spanning tree from the graph corresponding to the above map.
What could be a possible use case for a minimum spanning tree like the one created in this task?
Will the resulting minimum spanning tree always be the same, independent on which node is used as start node (not only for this graph, but for arbitrary graphs)?