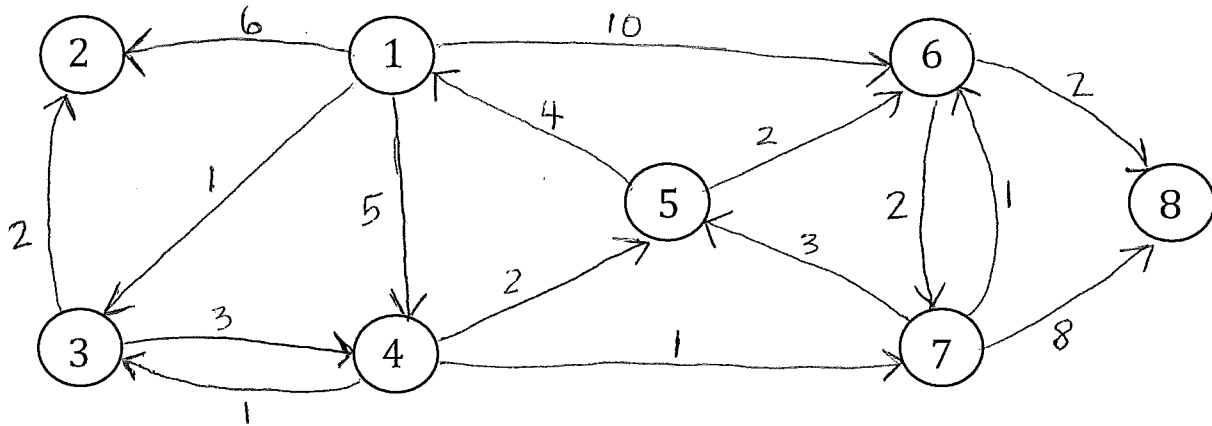## Practice – Dijkstra algorithm

1. Consider the following graph. Assume the nodes are stored in numerical order.
   Use Dijkstra's algorithm to find the shortest path from node 1 to all other nodes in the graph.
   Show `v`, `T[source][i].dist` and `T[source][i].path` at each state in the algorithm.

2. Give two edges that could be removed from the graph so that Dijkstra's algorithm still gives correct answers for the shortest distance from node 1 to all other nodes.