1. Do a topological sort to the below graph:

![Graph Image]

2. Simulate Dijkstra algorithm with the below graph. Count distances from node $a$.

![Graph Image]

3. Simulate Dijkstra algorithm with the graph given by the adjacency list:

   a: (4,c), (7,f)
   b: (9,e), (3,h)
   c: (4,a), (3,d), (2,f), (9,g)
   d: (3,c), (3,e), (7,g)
   e: (3,d), (2,g), (7,h), (9,b)
   f: (7,a), (2,c), (8,g)
   g: (9,c), (8,f), (2,e), (3,h), (7,d)
   h: (3,g), (7,e), (3,b)

Count distances from node $a$. 