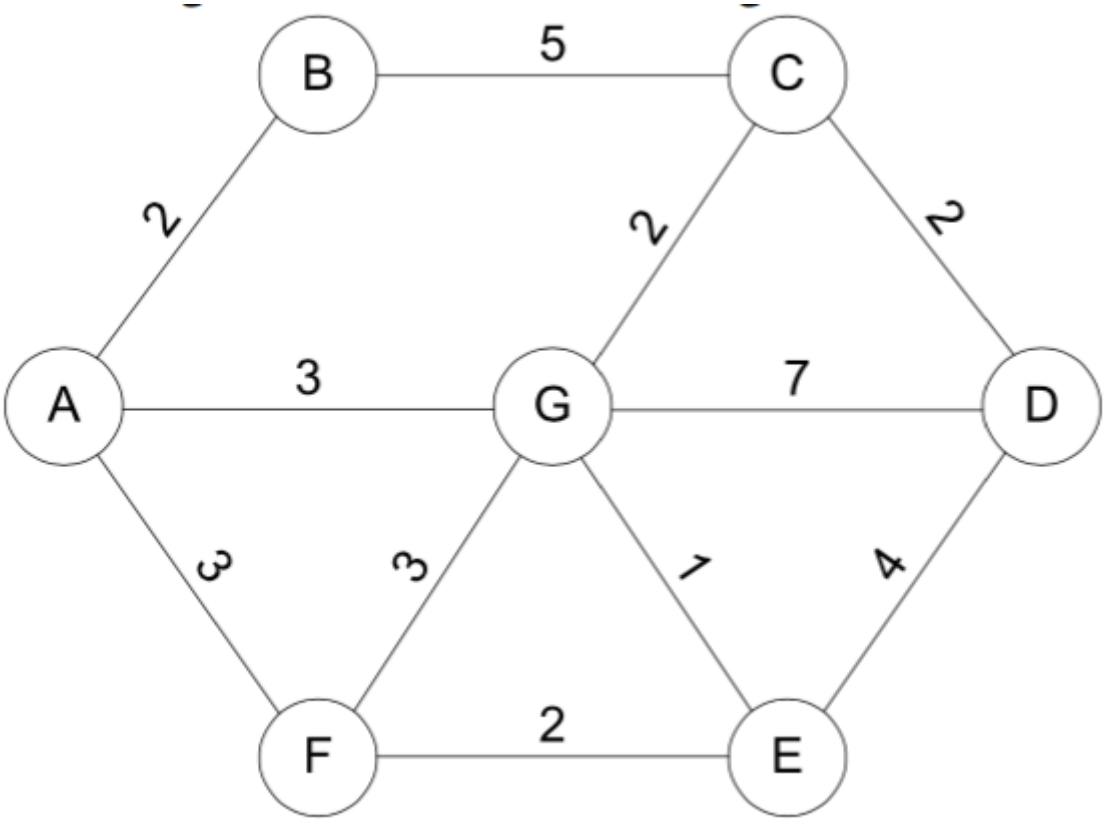
Students to Discuss Solutions: Routing (Week 8)

(a) For the network shown below with the given link costs, use Dijkstra's algorithm to determine the shortest path from A to all other nodes

(b) Based on your answer to (a), what would the forwarding table at A look like?

(c) Consider the distance-vector routing algorithm applied to this network.

(d) Show the *initial* distance tables for nodes A, B, F and G (i.e. when each node is only aware of its immediate neighbours). (ii) Show the distance table for node A after the first exchange of distance vectors between neighbours.



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