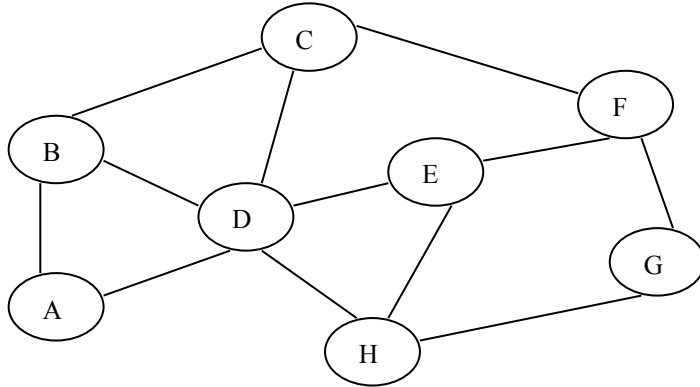


Review GRAPHS

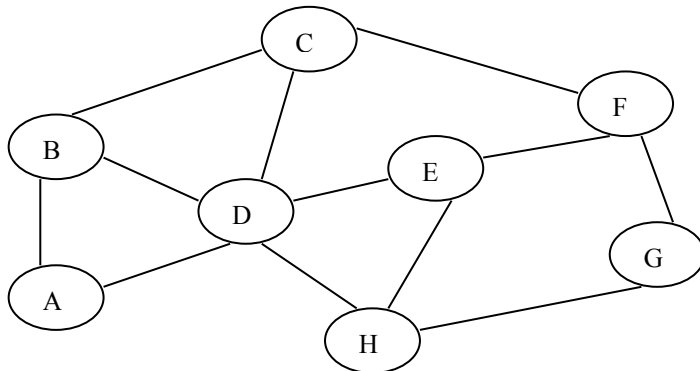
3. Stacks and Queues are often used as auxiliary data structures in tree and graph algorithms, such as graph traversals.

(A). Give the breadth-first traversal for the following graph
Begin with A. Show how you get the answer (queue)



A

(B). Give the depth-first traversal for the following graph. Begin with A.
Show how you get the answer (stack)



A								
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Review GRAPHS

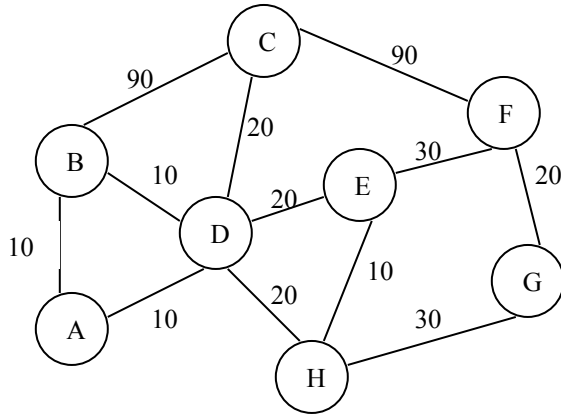
4. Minimum Spanning tree.

(A). Circle the algorithm of your choice:

- (a) Build the MST edge by edge? (Kruskal) or
- (b) Build the MST node by node? (Prim)

(B) Show how you get the answer, step by step (8 nodes => 7 steps).

(C) What is the minimum weight of your tree?



Review GRAPHS

5. Dijkstra's Shortest Path algorithm (begin with A). Show how you get the answer step by step (8 nodes => 7 steps).

