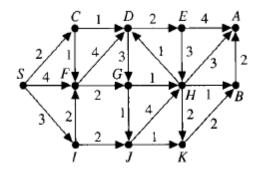
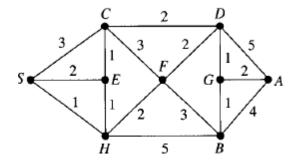
Due on 2018/01/16,

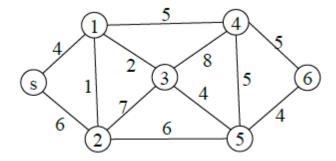
- 1. Calculate the shortest path from S to A by the following 2 methods
 - (a) Dijkstra's algorithm using binary min-heap
 - (b) Dijkstra's algorithm using Dial's implementation



- 2. Calculate the shortest path from S to A by the following 2 methods
 - (a) Dijkstra's algorithm using binary min-heap
 - (b) Dijkstra's algorithm using Dial's implementation



- 3. Using the graph in problem 2 above, calculate a shortest path from G to S by the following 2 methods
 - (a) Dijkstra's algorithm using binary min-heap
 - (b) Dijkstra's algorithm using Dial's implementation
- 4. Using the Floyd-Warshall algorithm to calculate the ALL-ALL distance matrix (7x7)



- 5. Using the Figure in Problem 4 to do a minimum spanning tree by Prim's algorithm
- 6. Similar as problem 5, but by Kruskal's algorithm
- 7. Using the Figure in Problem 4
 - (a) do a DFS starting from s to draw a DFS tree
 - (b) based on your result in (a), assign direction to all edges in the Figure of Problem 4 so that it is strongly connected