

學號：

姓名：

國立中山大學 99 學年度第 2 學期資訊工程學系資工數學

期末考

2011/06/15

- (1). Using Kruskal's algorithm to find Minimum Spanning Tree in Fig.(a)&Fig.(b)? (10%)
- (2) Kruskal's algorithm time complexity? (5%)
- (3). Using Prim's algorithm to find Minimum Spanning Tree in Fig.(a)&Fig.(b)? (10%)
- (4) Prim's algorithm time complexity? (5%)
- (5). Using Dijkstra's algorithm to find shortest path from A to F in Fig.(c)? (10%)
- (6) Dijkstra's algorithm time complexity? (5%)
- (7) Whether has Euler path (enum) in Fig.(d)? (5%)
- (8) Whether has Hamiltonian path (enum) in Fig.(d)? (5%)
- (9) Find adjacency matrix in Fig.(e)? (5%)
- (10) Find adjacency matrix in Fig.(f)? (5%)
- (11) Given a graph , if s is source node , using Bellman algorithm solving S to anyone node shortest path length in Fig.(g)? (10%)
- (12) Solving BFS in Fig.(h)? (10%)
- (13) Solving DFS in Fig.(h)? (10%)
- (14) BFS & DFS search time complexity? (5%)

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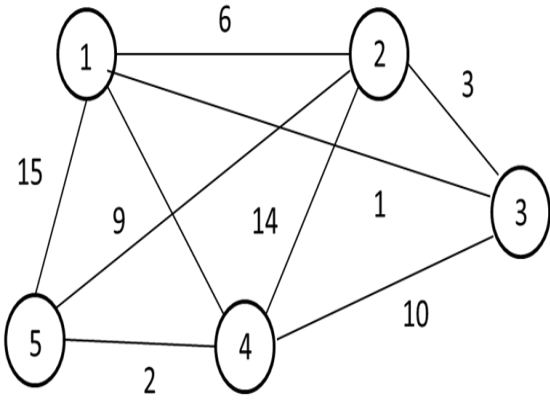


Fig.(a)

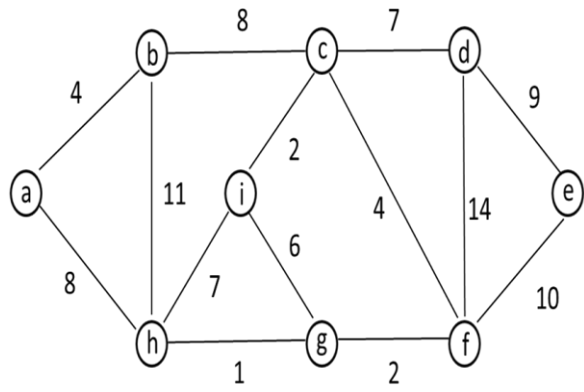


Fig.(b)

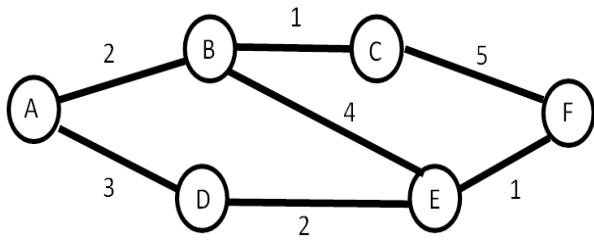


Fig.(c)

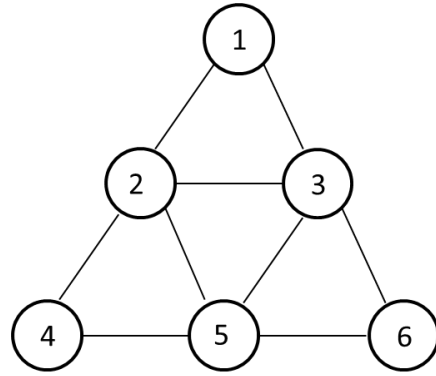


Fig.(d)

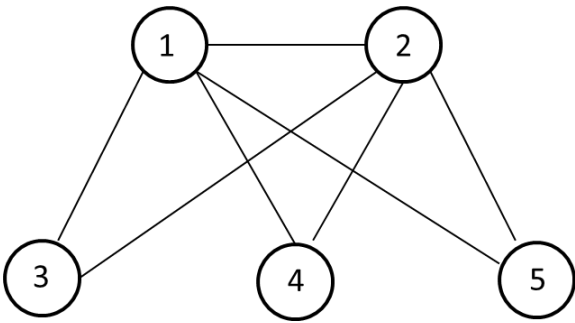


Fig.(e)

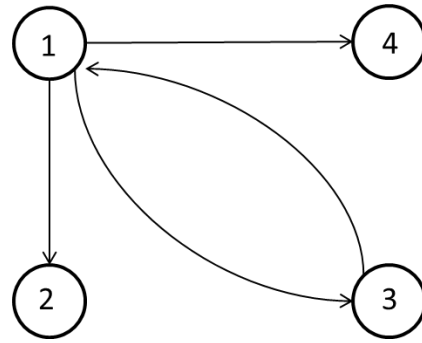


Fig.(f)

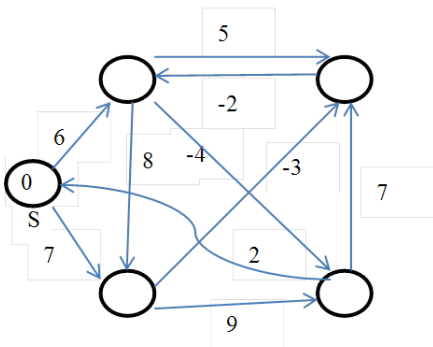


Fig.(g)

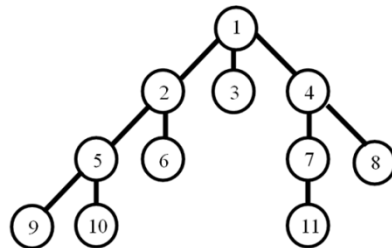


Fig.(h)