6. Write an instance method of a Graph class that returns the number of connected subgraphs of a graph. So, it would return 1, 2, and 3 (respectively) for each of these graphs:
   - A-B-C
   - A-B C
   - A B C

7. Show, by drawing a sequence of Trees and Priority Queues, the minimum spanning tree of this graph using Prim’s algorithm.

8. (a) Represent this directed acyclic graph by drawing it using
   i. an adjacency matrix
   ii. an adjacency list

(b) How does each representation change, if at all, if
   i. it is an undirected graph?
   ii. is it a weighted graph?