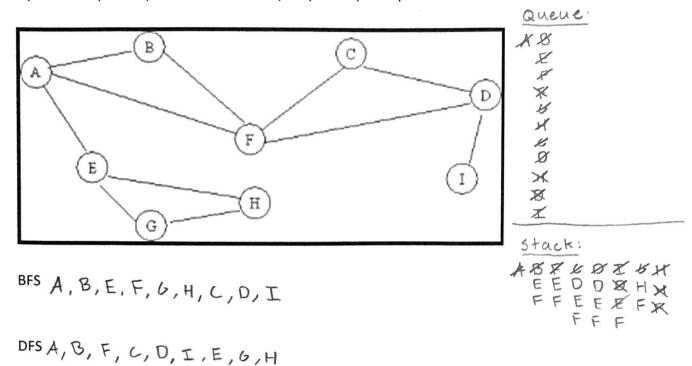
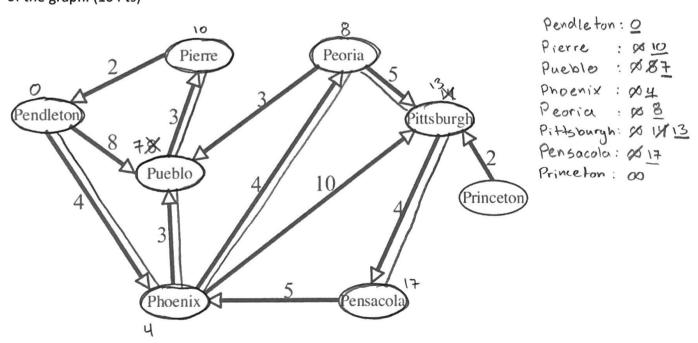
## Lab #9: Maps (30 Pts)

#1. Given the graph below, list the order in which the vertices will be visited if conducting a breadth first search and a depth first search from vertex A. Always take the lower cost or vertex which comes first alphabetically when presented with multiple options. (10 Pts)

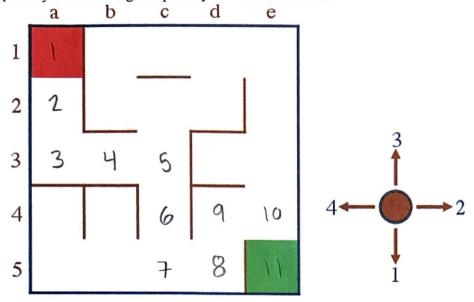


#2 Given the graphs below, use Dijkstra's algorithm to find the minimum path tree from Pendleton to the rest of the graph. (10 Pts)



Pendle ton, Phoenix, Pueblo, Peoria, Pierre, Pittsburgh, Pensacola

#3. Use a depth first search to navigate the maze from the red square to the green square. Numbers indicate priority -1 is the highest priority and 4 is the lowest.



## What to turn in:

Submit a document with your solutions via Canvas. This doesn't lend itself perfectly to any particular format. It can be typed or hand-written.