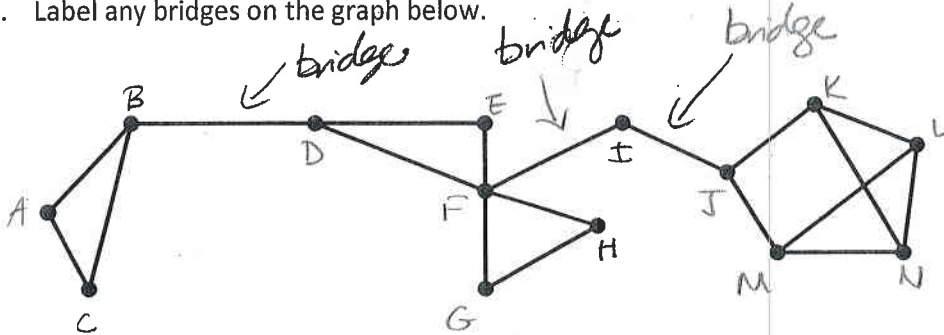


Instructions:

1. Label any bridges on the graph below.



BD, FI, IJ bridges

2. Describe Fleury's algorithm in your own words.

Choose a vertex to start at. Choose an edge to cross that will not disconnect pieces of the remaining graph. Continue in this way until all the edges have been used.

3. Explain the difference between an Euler Circuit and a Hamilton Circuit. On the graph in question #1 can you find either, both or neither? Why or why not?

An Euler circuit uses all the edges & returns to the same vertex (you may repeat vertices). A Hamilton circuit uses all the vertices (but not all the edges) without repeats.

There is no Euler circuit since there are 8 odd vertices  
 There is no Hamilton circuit since the degree-5 vertex labeled F above must be used twice to visit the vertices G, H.