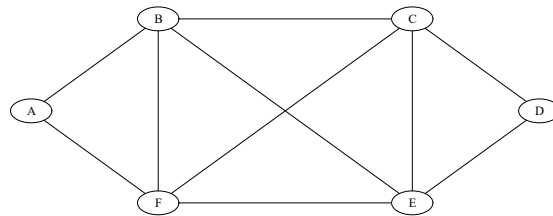CS4335 Design and Analysis of Algorithms
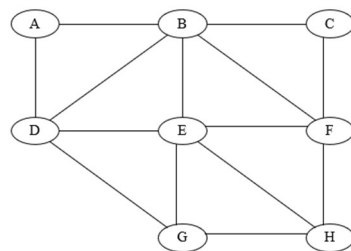
Tutorial One

Question 1:

ABCDEFBECFA

Question 2:

If degree of vertex is larger than two, and the vertexes connected to it only have degree of two, that vertex will be visited more than one time.

Question 3:

As for going across each border, Euler circuit is applied.

According to Euler circuit, a connected graph has a Euler circuit if and only if all the vertices in the graph have even degrees, so the required tour does not exist.