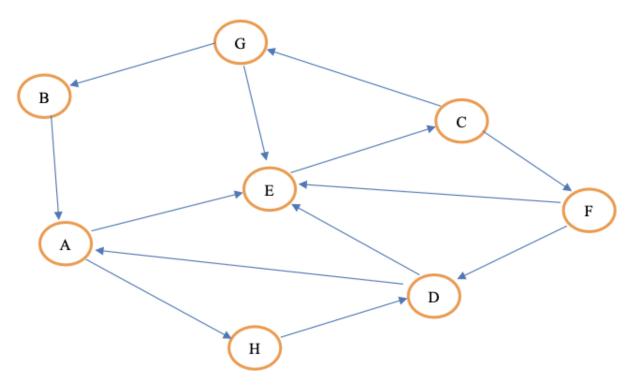
## CSC6013 - Worksheet for Week 3

BFS - Breadth First Search using the brute force algorithm as seem in class

Consider the graph below:



- 1) Represent this graph using adjacency lists. Arrange the neighbors of each vertex in alphabetical order.
  - list the triplets for this graph in the form (A, B, 1), where there is a edge from vertex A to vertex B;
  - Note that this graph is directed, unlike the one presented in class.
- 2) Trace the BFS execution, starting at Vertex A, by adapting the code to deal with a directed graph (remove lines 14, 15, and 16) and instrumenting it to print every time a vertex is visited and everytime a vertex is enqueued or dequeued.
  - Each time a vertex A is visited print: "Vertex A visited" and the current array V;
  - Each time a vertex B is enqueued print: "Vertex B enqueued" and the current queue Q;
  - Each time a vertex C is dequeued print: "Vertex C enqueued" and the current queue Q.