* **Due** May 25 by 11:59pm

**Exercises - Graphs (Part One)**

Answer the following questions by implementing the code samples and/or answering the questions in a word document. Upload all project files and word documents zipped to the exercise dropbox.

1. Draw the resulting undirected graph with the following edge pairs: (b, a), (b, c), (c, d), (b, d), (e, d), (c, e), (d, f), (f, g), (g, e), (e, h), (g, h)

2. Is there a cycle in the graph from (1)?

3. Draw the resulting directed graph with the following edge pairs: (a, b), (b, c), (a, c), (b, d), (c, d), (c, e), (d, f), (f, e), (g, e), (f, g), (g, h)

4. Is there a cycle in the graph from (3)?

5. Give the Depth-first-search of the graph from (1).

6. Give the breadth-first-search of the graph from (1).