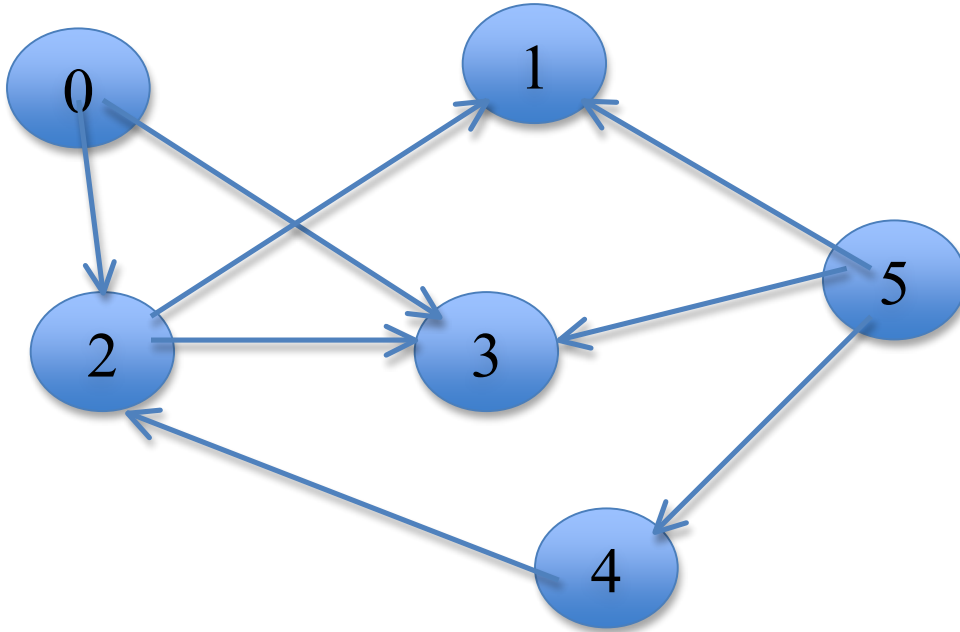


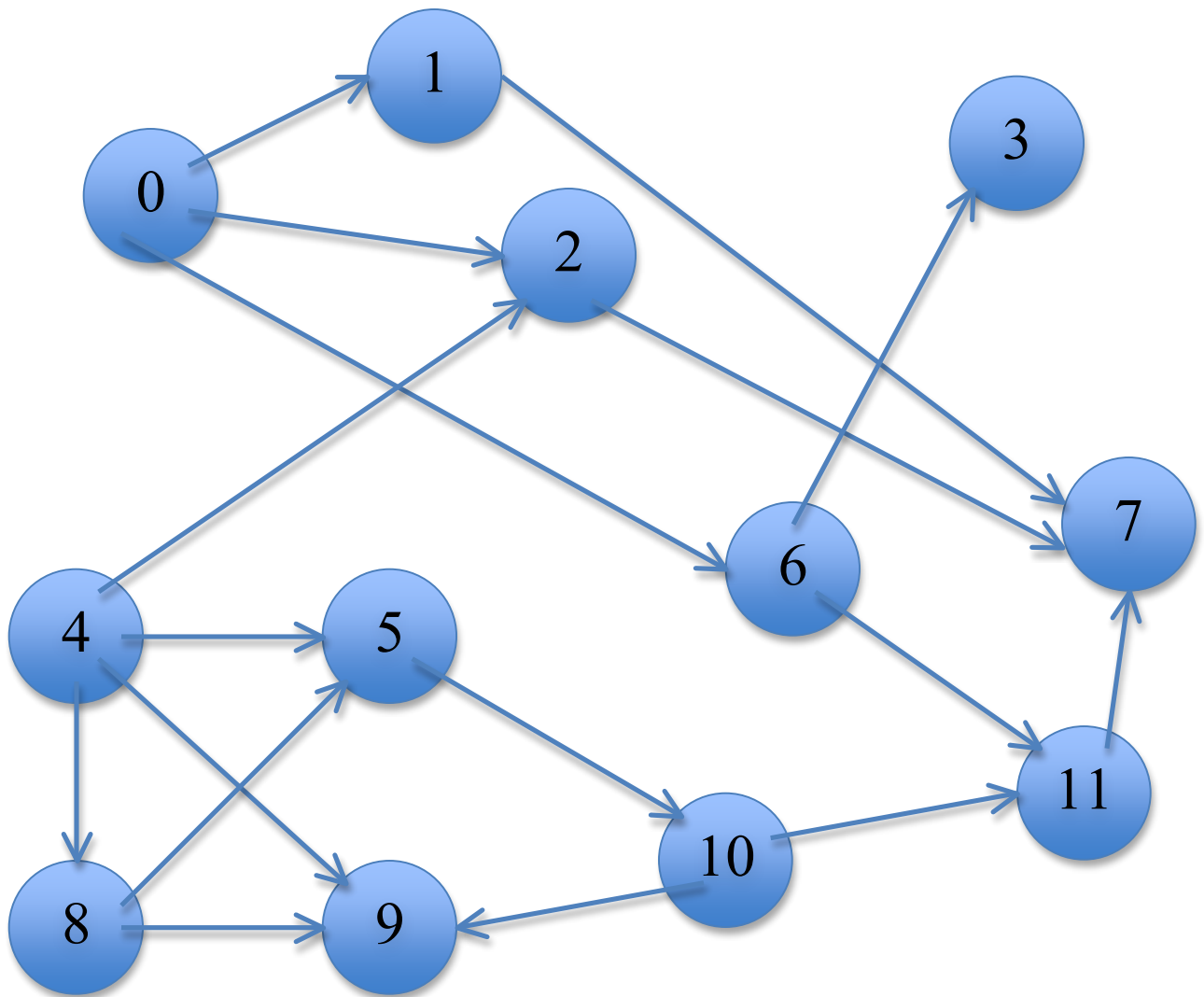
**Graph Exercises:**

1. Consider the graph below:



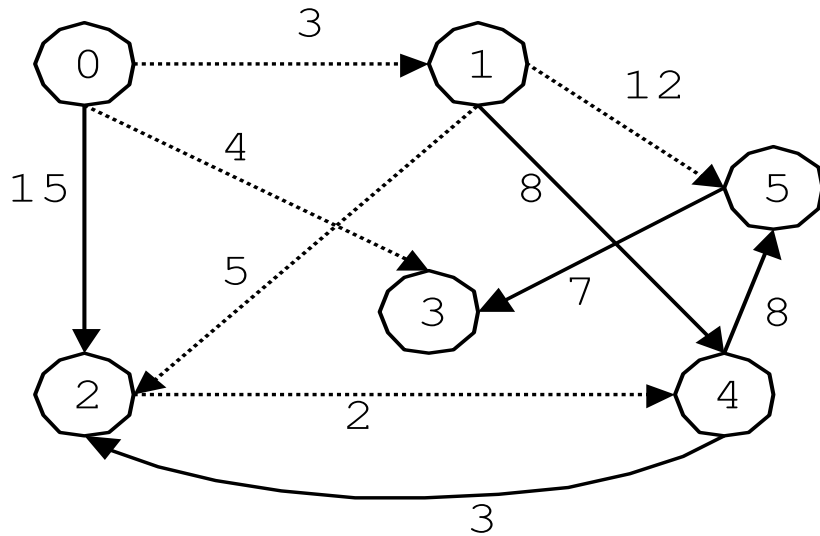
- (a) Find the adjacency matrix
- (b) Draw adjacency list
- (c) List nodes in depth first traversal (ascending order)
- (d) List nodes in breadth first traversal (ascending order)

2. Consider the graph below:



- a) List nodes in depth first traversal (ascending order)
- b) List nodes in breadth first traversal (ascending order)

3. Consider the graph below. Find the shortest distance from node 0 to every other node in the graph.



4. Try more exercises from links below by creating new graphs:

<https://www.cs.usfca.edu/~galles/visualization/BFS.html>

<https://www.cs.usfca.edu/~galles/visualization/DFS.html>

<https://www.cs.usfca.edu/~galles/visualization/Dijkstra.html>

<http://www.ee.ryerson.ca/~courses/coe428/graphs/dijkstra.html>

**Lab Exercises:**

1. Write a program that outputs the nodes of a graph in a depth first traversal.
2. Write a program that outputs the nodes of a graph in a breadth first traversal.
3. Write a program that outputs the shortest distance from a given node to every other node in the graph.