1. Consider the set of activities (Figure 16.1) in page 420 of the textbook. Construct a DAG (Directed Acyclic Graph) from the set of activities and determine the longest path in the DAG. Using the path, identify the answer to the Activity Selection Problem.

2. Consider the set of activities (Figure 16.1) in page 420 of the textbook. Construct the intersection graph of these activities and determine its chromatic number, which is the solution to the Lecture Hall assignment problem for the set of activities.