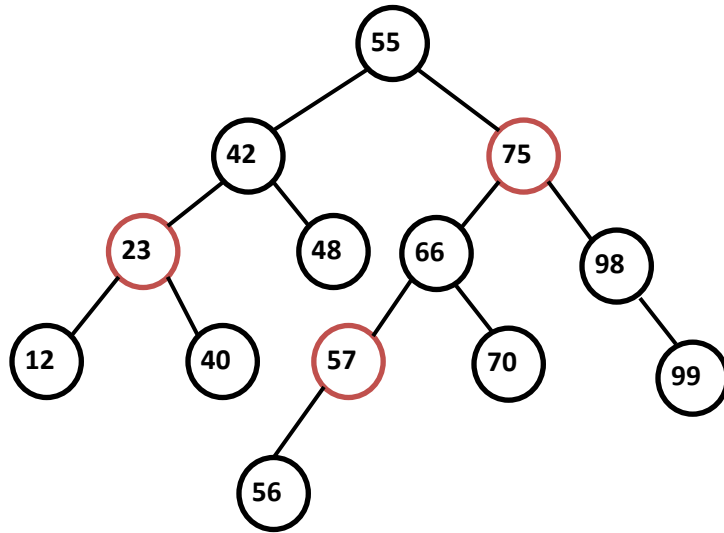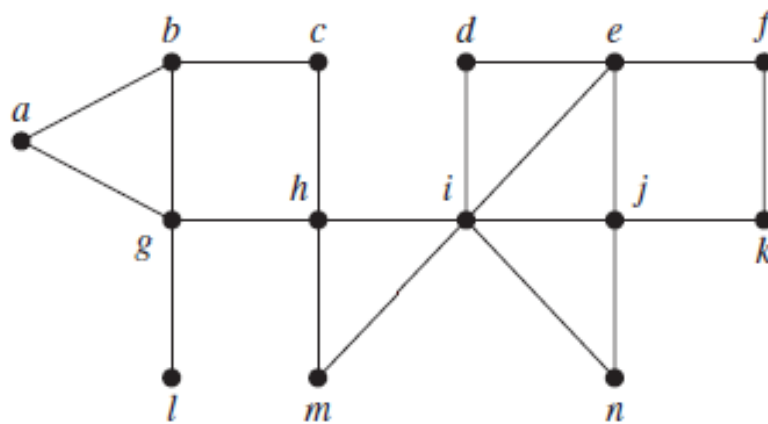1. For the following Red-Black tree, show what happens when 68, then 72, 69, then 71 are inserted into the tree.

2. Given an empty Red-Black tree, show what happens after the following keys are inserted into the tree, in the given order: 7, 6, 5, 4, 3, 2, 1

3. For the following undirected graphs, use both a Depth First Search/Traversal and a Breadth First Search/Traversal to produce lists of the order in which the vertices are visited. For each case, start the search at vertex a, and If there is a choice when deciding which vertex to visit next, always choose the alphabetically earlier vertex.

a)

b)