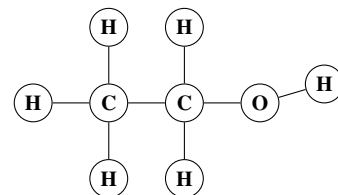
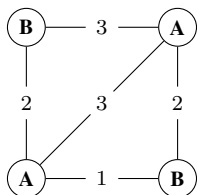
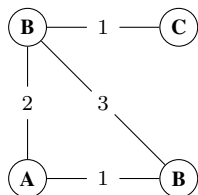


Knowledge Discovery in Databases II
 WS 2014/2015

Übungsblatt 12: Graph and Link Mining

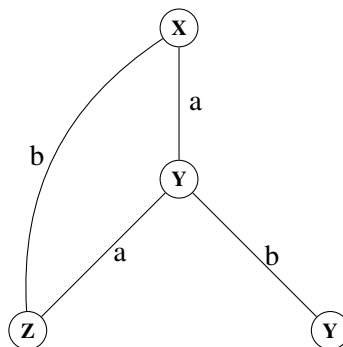
Aufgabe 12-1 Canonical Labeling

Calculate the Canonical Labeling of the following graphs:



Aufgabe 12-2 gSpan

Given the following graph G :



- List all DFS trees for G that start at node X .
- Encode them as DFS codes and order them lexicographically.
- Which code is used to represent the original graph? Why is the chosen DFS code unique? Which graph properties are necessary to apply this technique?
- List all possible right-most extensions of the DFS corresponding to the selected graph.