

## Assignment 2

### 1 Incompatible clusters (3 LP)

Design a set of clusters  $\mathcal{C}$  whose incompatibility graph  $IG(\mathcal{C})$  is the following:



### 2 Pseudo-code for Hasse diagram (4 LP)

Write an algorithm in pseudocode that takes as input a system of clusters  $\mathcal{C}$  and produces as output the Hasse diagram that represents  $(\mathcal{C}, \subseteq)$ .

### 3 Cluster network from trees (3 LP)

Write down all clusters represented by the two trees  $T_1$  and  $T_2$  depicted below. Construct a cluster network that represents all the clusters.

