Programming Assingment 1

The goal of the programming assignment is to implement algorithms for drawing rooted binary trees. A rooted binary tree T

- is a directed acyclic connected graph
- its root has in-degree 0 and out-degree 2
- every other node has in-degree 1 and out-degree at most 2

You are asked to extend the graph-editor source code using the y-Files library, by implementing the algorithms of Category A (layered drawings) or Category B (hv-drawings).

Category A – layered drawings

a) layered drawing based on inorder
b) layered drawing using enclosing rectangles
c) layered drawing using contours

Category B – hv drawings

a) right-heavy hv-drawing
b) balanced hv-drawing
c) optimal hv-drawing

Due by: Wednesday, November 16 (by email).