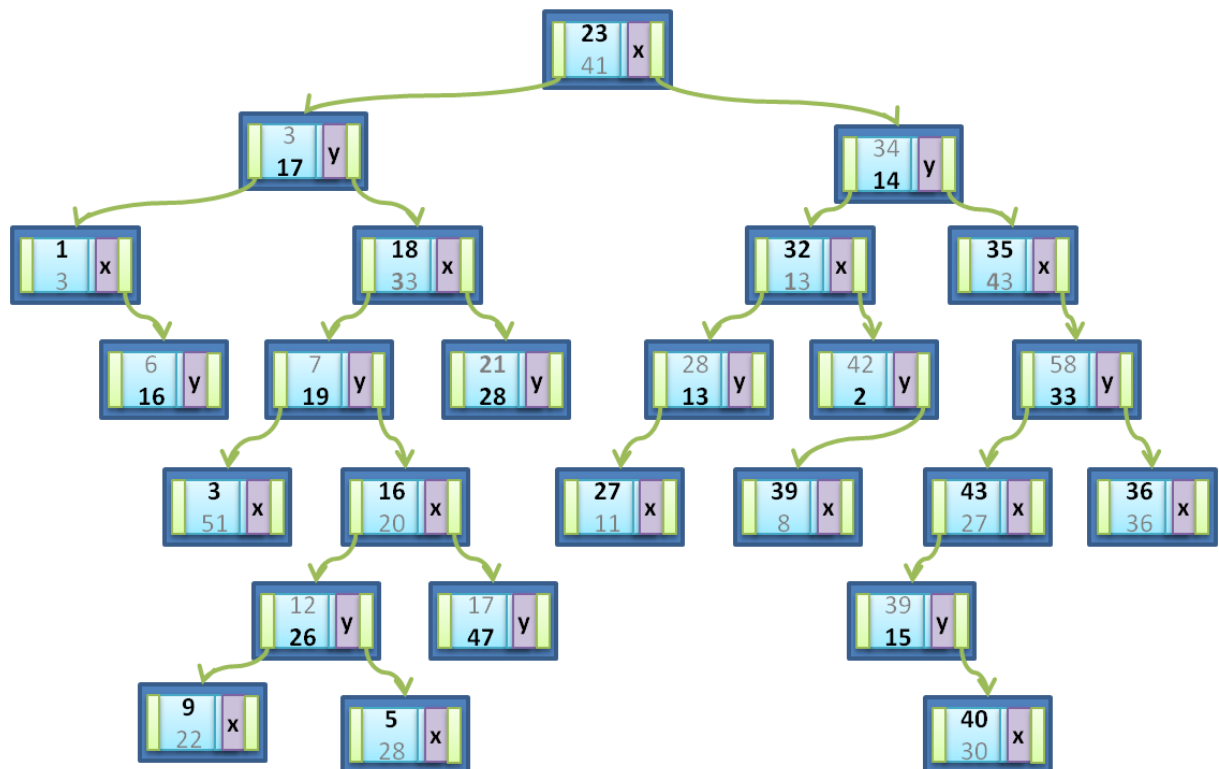


Exercises for Spatial Databases and GIS

Sheet 6 (until 14.12.2012)

Exercise 1 (K-D tree)

1. Which nodes have to be visited during the search for all points within the rectangle defined by (5, 15) (17, 21).
2. Insert the points (7,48) and (36,10).
3. Delete the point (7,19).



Exercise 2 (Pseudo-quadtrees)

Construct two pseudo-quadtrees for the points in the picture below.

1. One that is balanced, i.e. all leaves are on the same level.
2. And another one that has as few Nil-pointers as possible.

