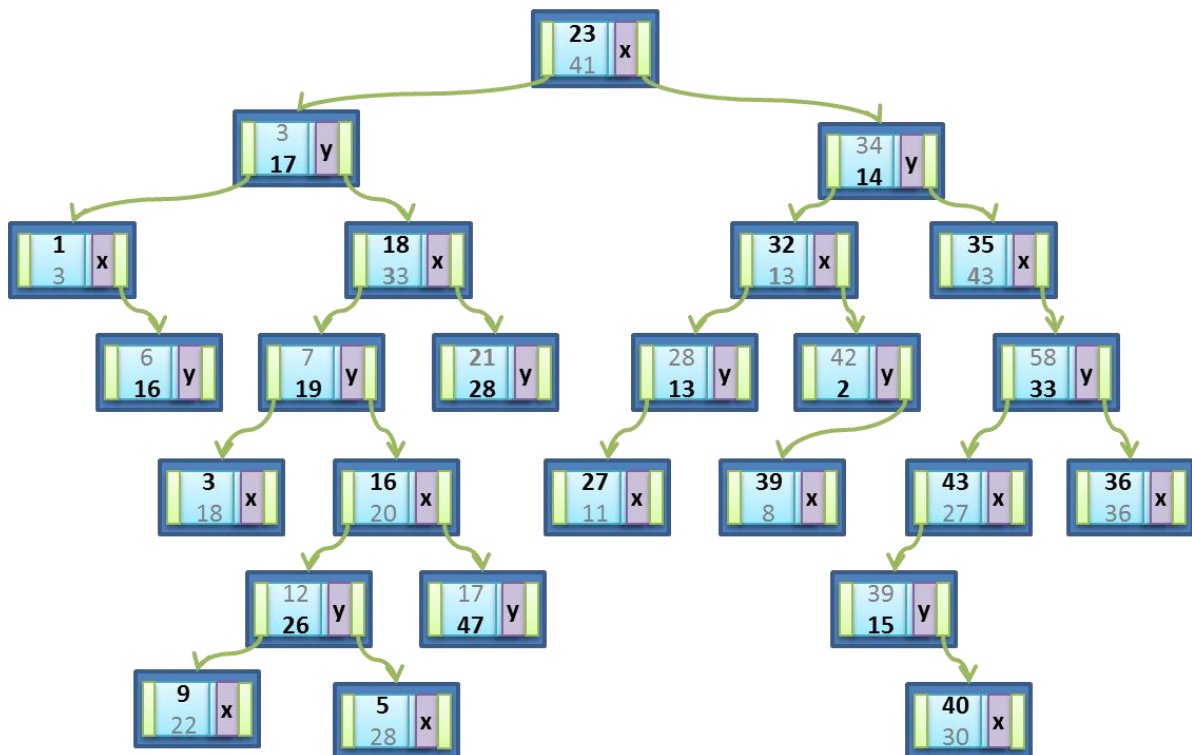


Exercises for Spatial Databases and GIS

Sheet 7 (until 20.12.2013)

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 (BSP-tree)

1. Construct the BSP tree using the heuristic (slide 489) for the example on slide 493. In contrast to the solution presented during the lecture, objects that lie on the same splitline should be stored in one node.
2. What influence does the orientation of the split lines have, i.e. how would the tree change if you change the orientation of some of them?

