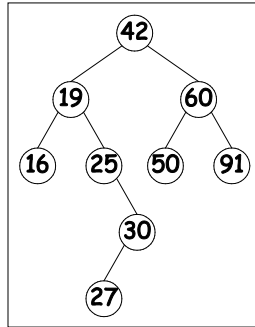
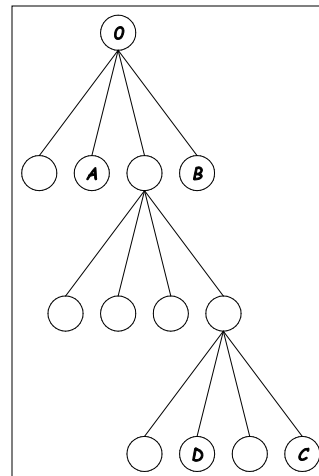
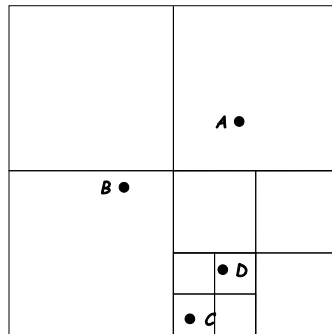


Discussion Section 10 (11/06/2008)

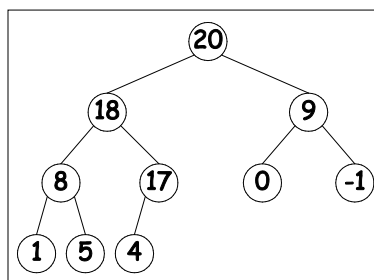
1. **Binary Tree** (General-purpose)
2. **Binary Search Tree** (Sorted)



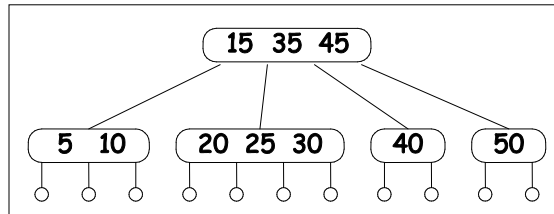
3. **Quadtree**



4. **Heap** (Partially sorted)



5. **B-Tree** (Balanced and sorted)



6. **Red-Black Tree** (Balanced and sorted with constraints)

- 1) Each node is colored red or black.
- 2) Root is black.
- 3) Every leaf node contains no data and is black.
- 4) Every leaf has same number of black ancestors.
- 5) Every internal node has two children.
- 6) Every red node has two black children.

