

CSC 530/730

W7 Exercise 4

2-3-4 Trees

Problem 1

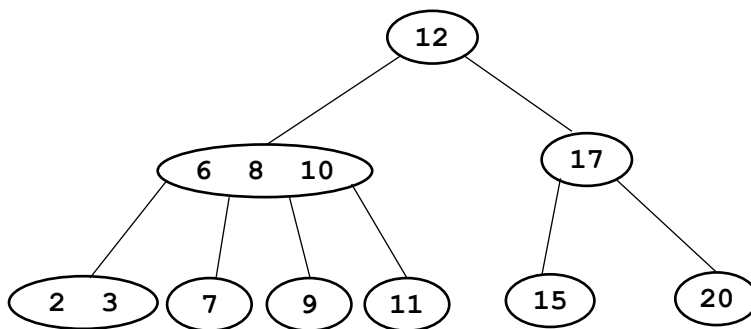
Build a 2-3-4 tree using the keys entered in the following order. Show the intermediate 2-3-4 trees after every node-splitting happens during the building process.

1 19 5 2 18 3 8 9 14 7 6 24 0 13 16 12 4

Problem 2

Consider the following 2-3-4 tree. What will be resulting 2-3-4 tree if one of the following keys is from the tree?

- a) Remove 7
- b) Remove 10
- c) Remove 20
- d) Remove 9



Submission

NO submission is needed.