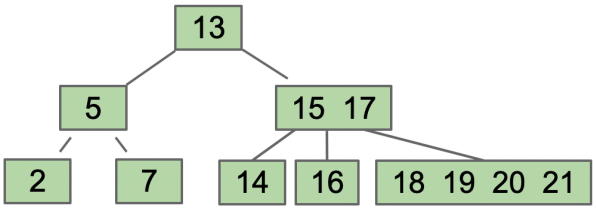
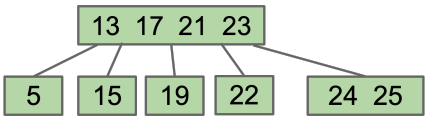
CS62: Spring 2025 | Lecture #18 (B-Trees) worksheet | Jingyi Li

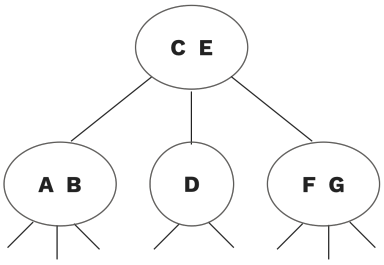
1. Suppose we just added 20 and 21. If our cap is at most L=3 items per node, draw the post-split tree.



2. Draw the tree after the root is split.



3. Given the following 2-3-4 tree, insert keys H, I, J, K in that order.



4. Draw the 2-3-4 tree that results when you insert the keys: 5, 1, 19, 25, 17, 21, 20, 9, 15, 14, 16, 18, 26 in that order in an initially empty tree.