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Today: B-trees; § 19.8.

Next class: Priority queues and binary heaps; §§ 21.*.

- 1. Write your group members' names below. Underline your name.
- 2. Depict the result of inserting the following keys, in the order presented, into an initially empty B-tree with parameters M = 4 and L = 3, based on the definitions and methods in the textbook.¹ (The tree is thus a B⁺-tree.)

Depict some intermediate states of the tree, including at least the states after each node-splitting operation.

Similarly, depict the result of deleting the following keys, in this order, depicting at least the intermediate states after each node-merging operation.

¹Mark Allen Weiss, *Data Structures and Problem Solving Using Java*, 4th edition (Addison-Wesley, 2010), §19.8.

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