Today’s topics: B-trees. §19.8.
Next class: catch-up; review.

1. List the members of your group 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.)

$$70, 50, 60, 65, 40, 75, 62, 63, 41, 42, 51, 52, 53, 54$$

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.

$$40, 41, 52, 63$$

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