

Data Structures - Quiz - 7

Question:

- (1 point) Draw a binary search tree of entries with keys 1, 2, ..., 15 that has height 3.
- (2 points) In what order do we have to call `put(key, value)` on these entries to get the tree you drew?
- (7 points) Remove the entries in this order. Redraw the tree after each removal.
i.e., if your answer to (b) was `put(1, V); put(2, V); ...`, then please perform `remove(1); remove(2); ...` and redraw the tree at each step.

Solution:

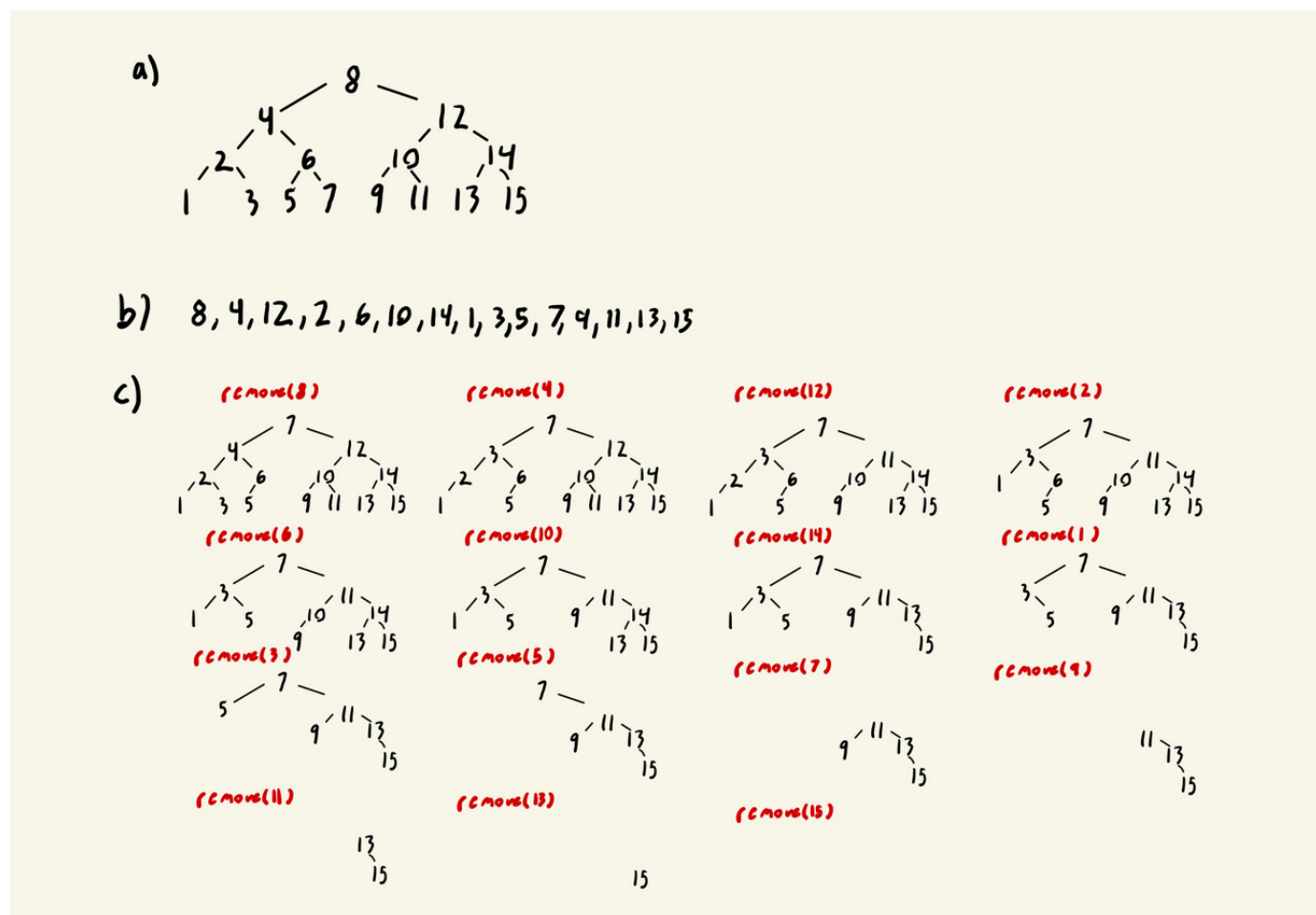


Figure 1: Stepwise implementation