

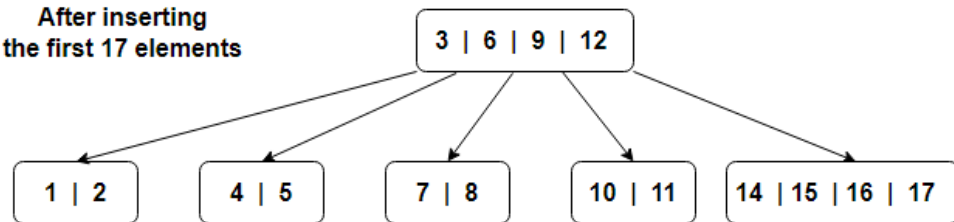
# B-Trees & Fibonacci Heaps

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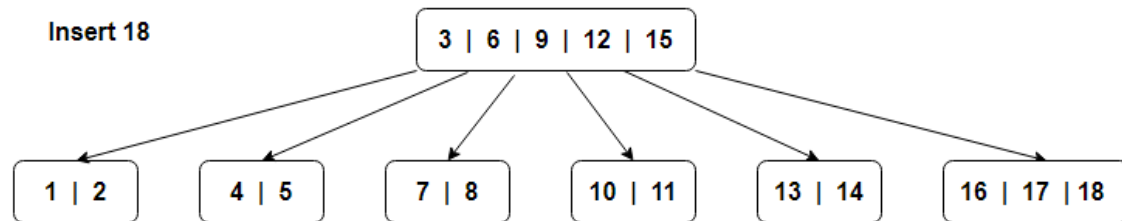
# B-Trees

- Start from the one and continue to insert till the B-tree with  $t=3$  have depth 3. What is the size of the tree?
- Delete 19, 14 12.
- Repeat experiments for the B+-tree (just insertion).

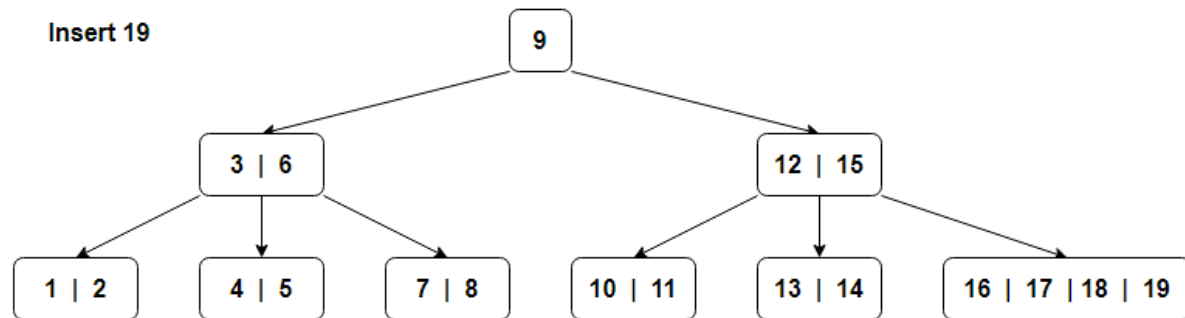
After inserting  
the first 17 elements



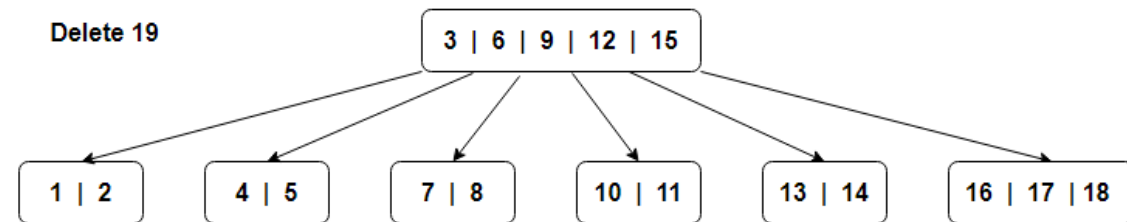
Insert 18



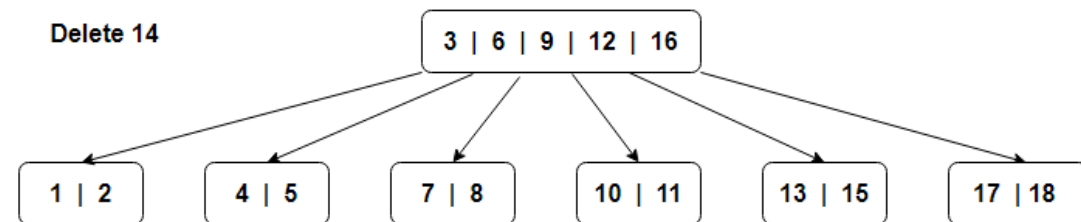
Insert 19



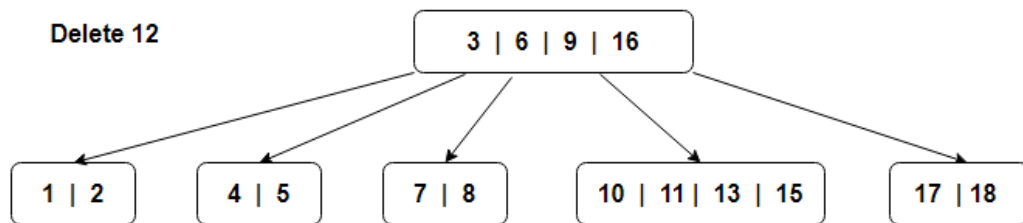
Delete 19



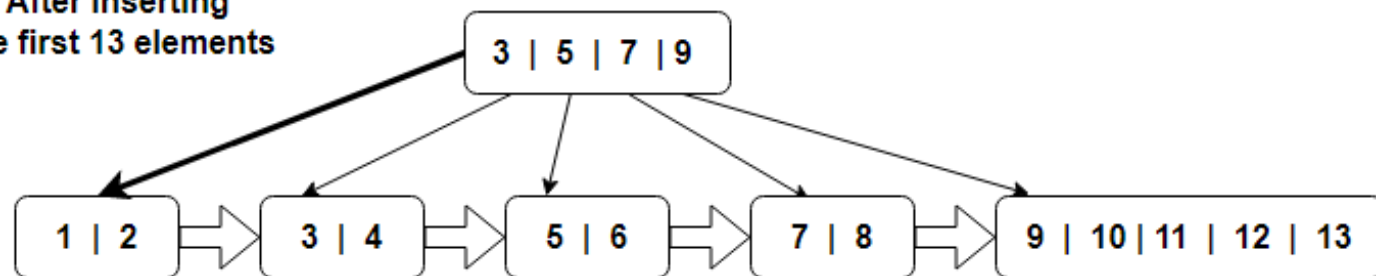
Delete 14



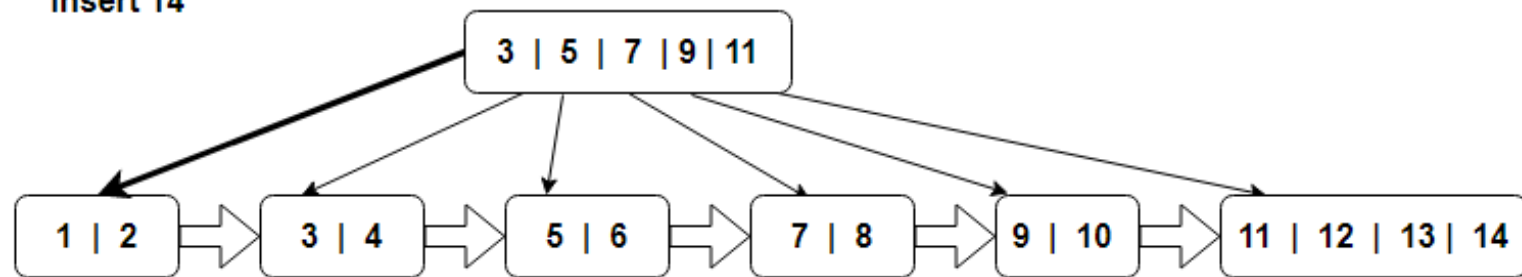
Delete 12



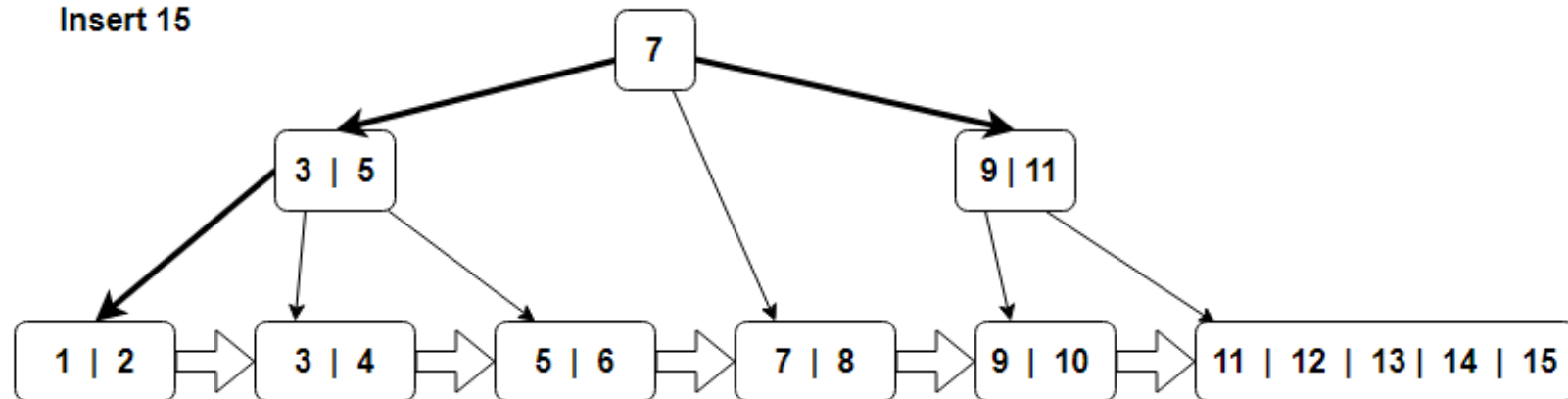
After inserting  
the first 13 elements



Insert 14



Insert 15



# Fibonacci Heaps

- Insert 88, 49, 7, 5, 21 -> Extract min -> Insert 50, 67, 78, 65, 28 -> Extract min -> Insert 15, 23, 37, 8, 84 -> Extract min

