

【DS】 Day18

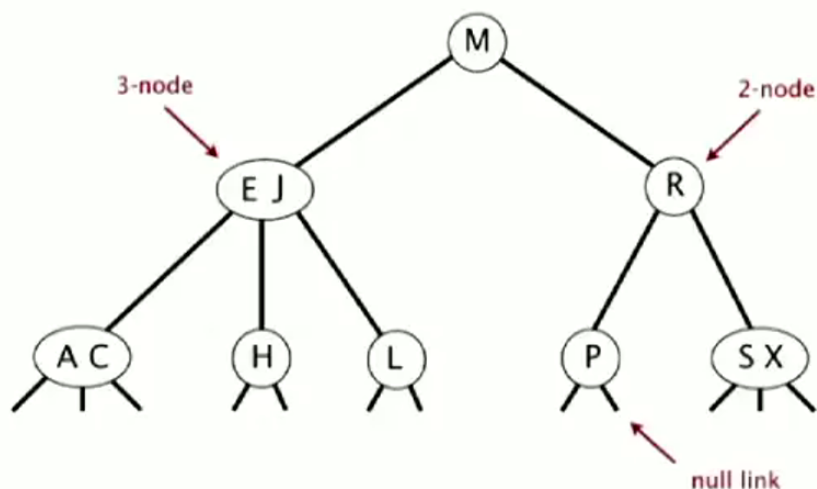
☰ Tags	
📅 Date	@June 14, 2022
☰ Summary	2-3 Search Tree

【Week 5】 Balanced Search Trees

5.1 2-3 Search Trees

Allow 1 or 2 keys per node.

- 2-node: one key, two children
- 3-node: two keys, three children



Insert into a 3-node at bottom:

- Add new key to 3-node to create temporary 4-node
- Move middle key in 4-node into parent
- Repeat up the tree, as necessary

- If we reach the root and it's a 4-node, split it into three 2-nodes.