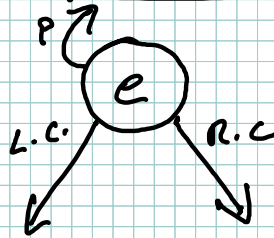
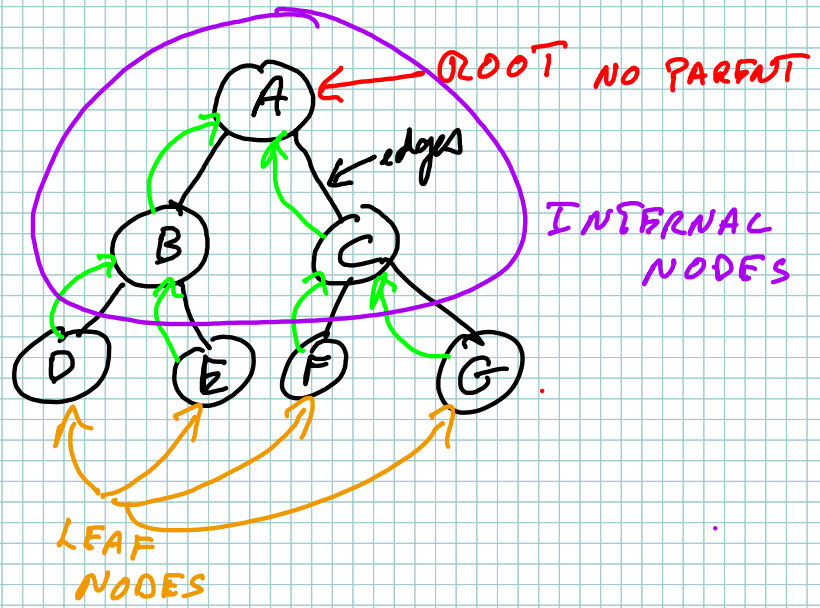
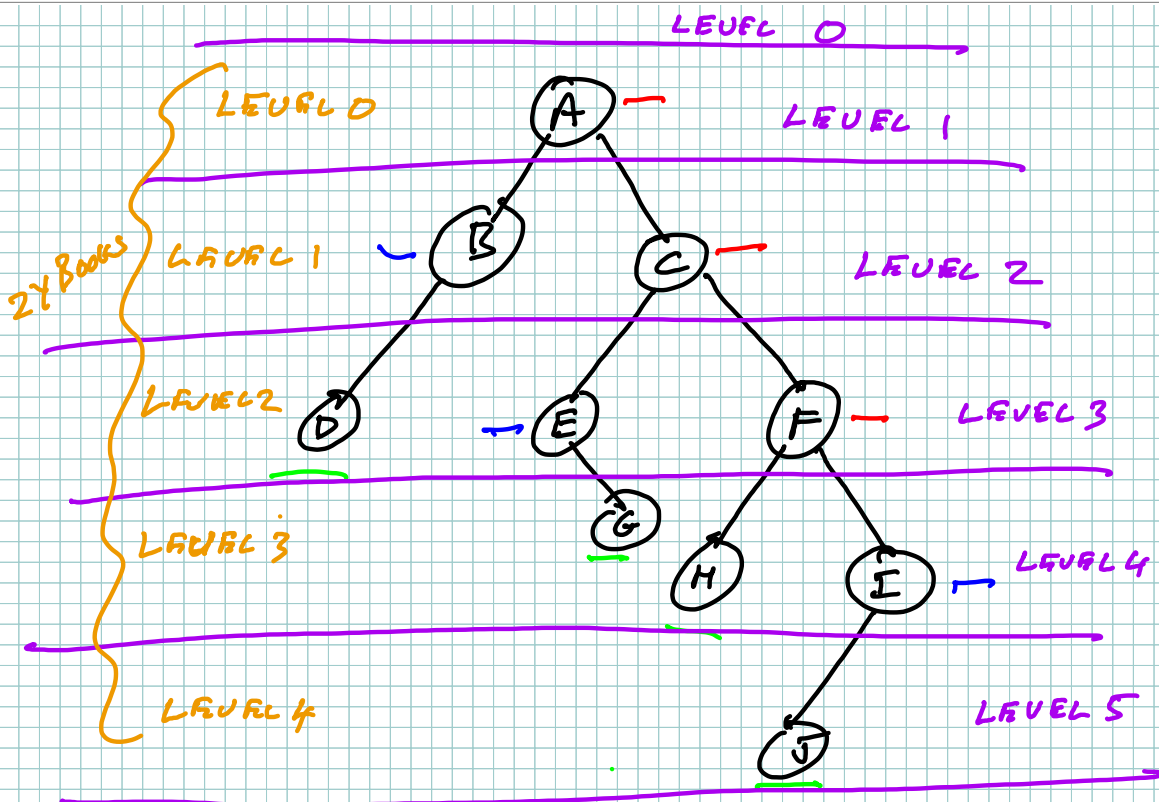


TREE NODE





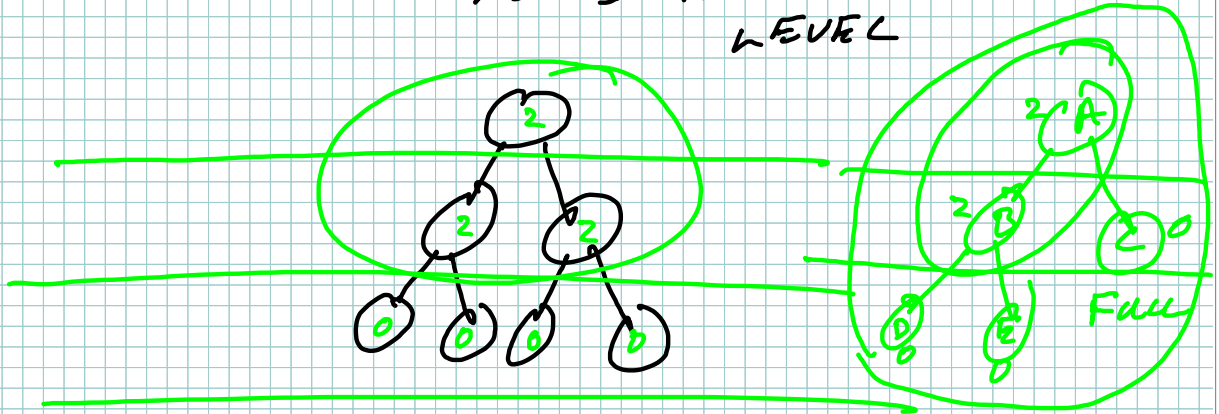


FULL

COMPLETE

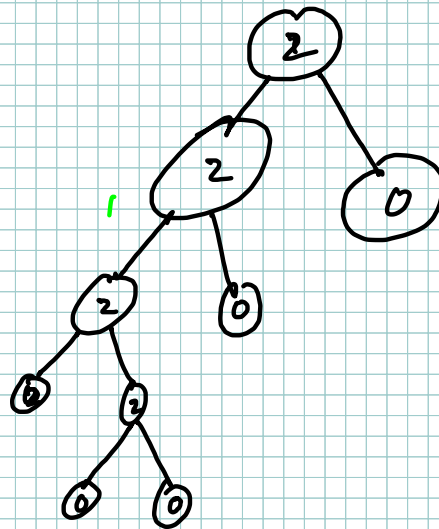
PERFECT

PERFECT TREE : ALL INTERNAL NODES HAVE 2 CHILDREN & ALL LEAF NODES ARE AT SAME LEVEL



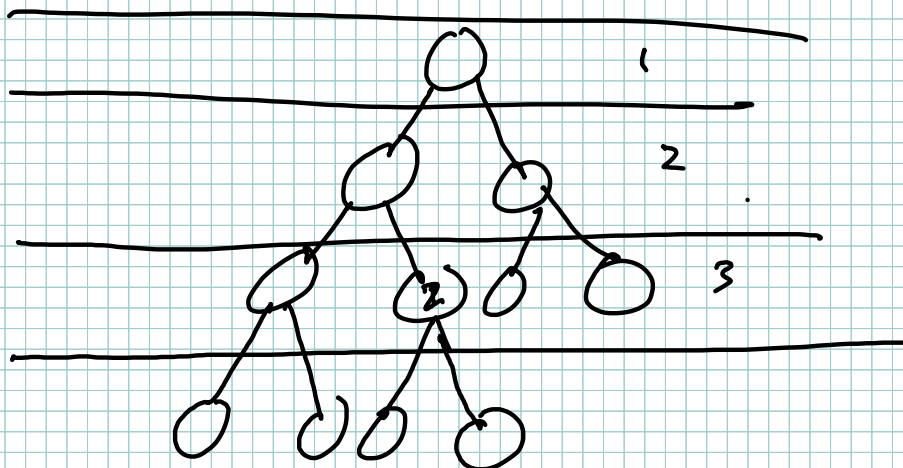
PERFECT
FULL
COMPLETE

FULL TREE: EVERY NODE HAS 0 OR 2 CHILDREN



FULL

COMPLETE TREE: IF ALL LEVELS EXCEPT
MAYBE THE LAST LEVEL
CONTAIN ALL POSSIBLE NODES.
LAST LEVEL ALL NODES ARE
~~AS~~ AS FAR LEFT AS POSSIBLE

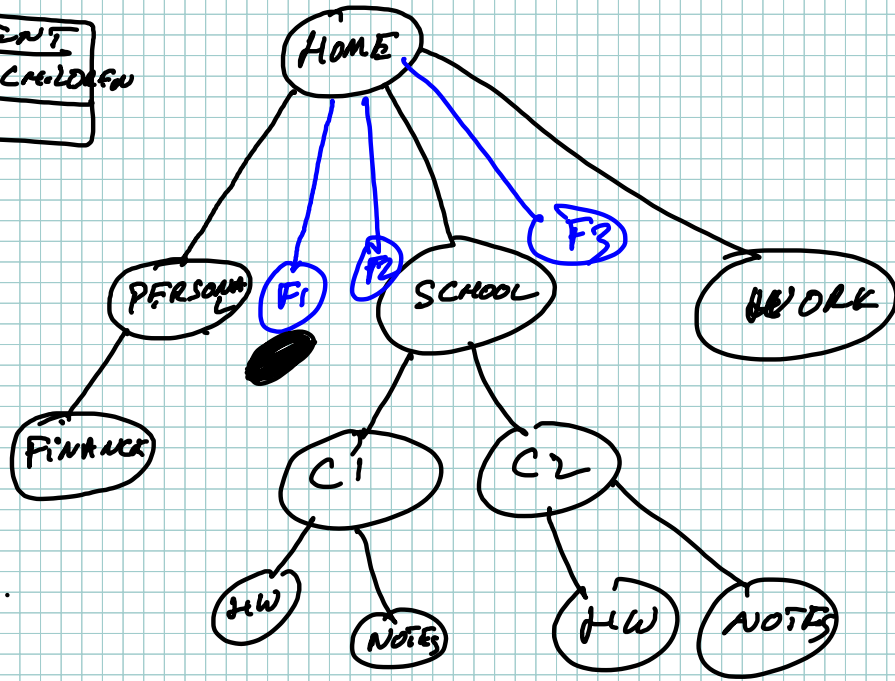


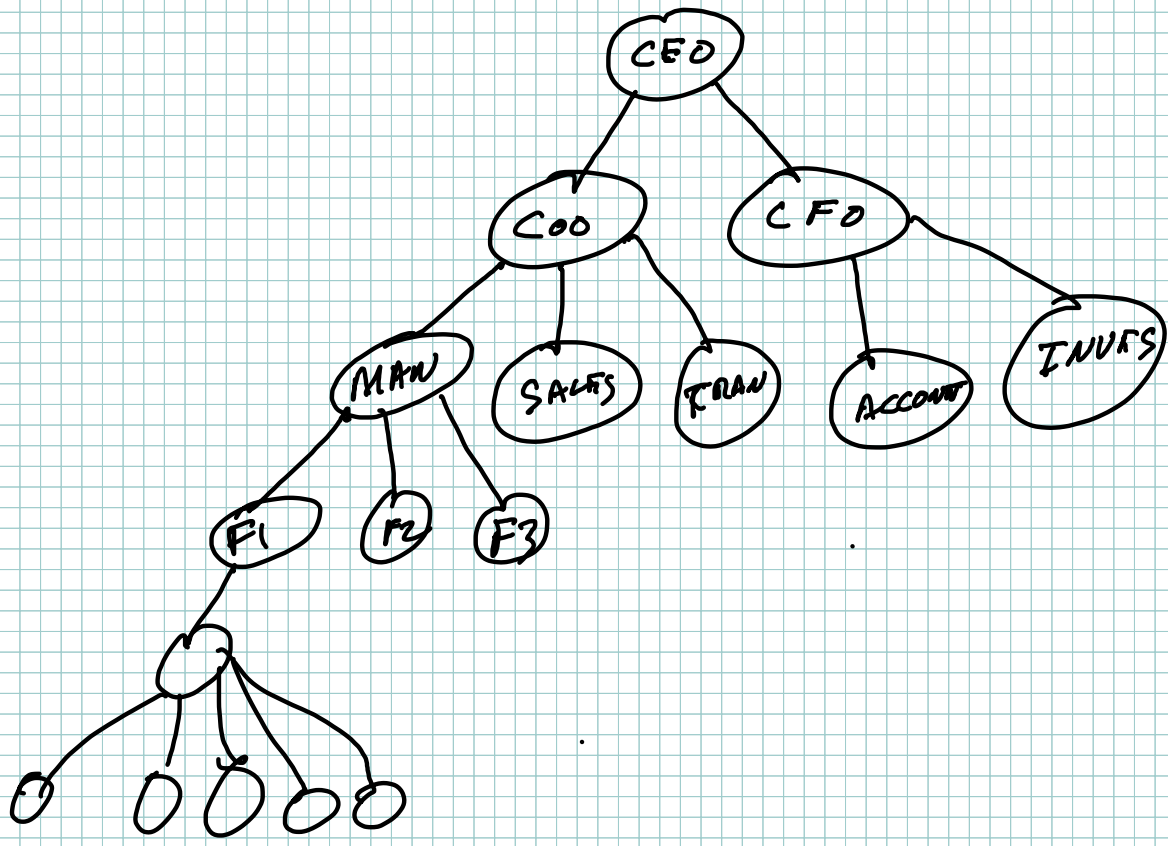
COMPLETE
FULL

PARENT
LIST OF CHILDREN

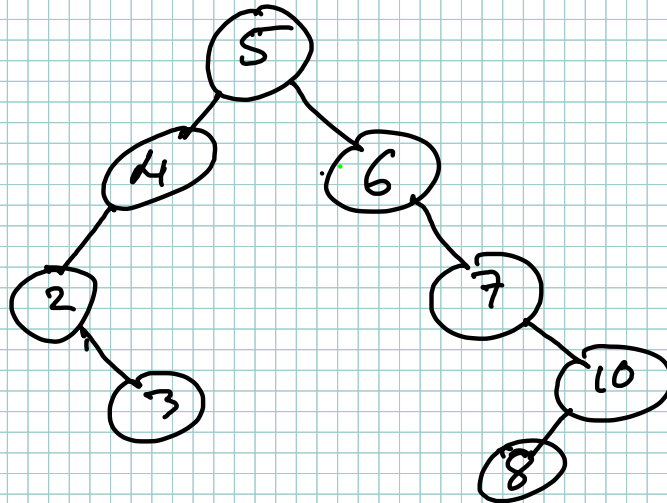
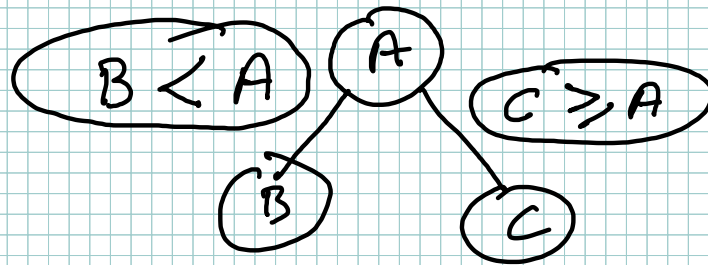
ROOT

- / USERS
- / VOLUMES
- / etc
- / ---
-





BINARY SEARCH TREE



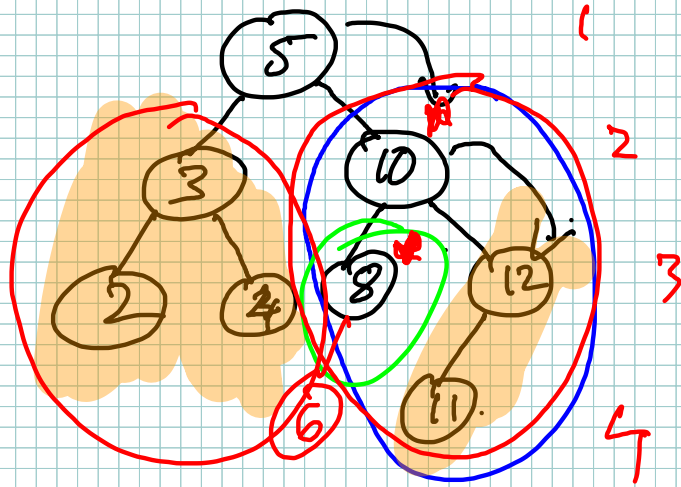
5, 10, 3, 12, 4, 11, 8, 2, 6

find

$$O(\log_2 n)$$

$$\log_2 8 = 3$$

$$2^3 = 8$$



1, 4, 8, 10, 25, head, 60

