

) first find the bounding square.

pinde the square into 4 equal size squares.

thick whether the squares are completely filled or partially, filled or empty.

Any nule representing a completely filled or empty square will not be expanded.

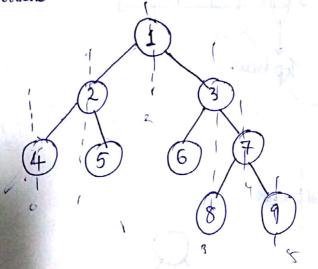
of Further, draide all the partially filled squares into 4 equal

6) If square size > pixel size goto step2.

3) At the leaf nodes, the & nodes representing squares than 50% filled are made completely filled, and the next completely empty,

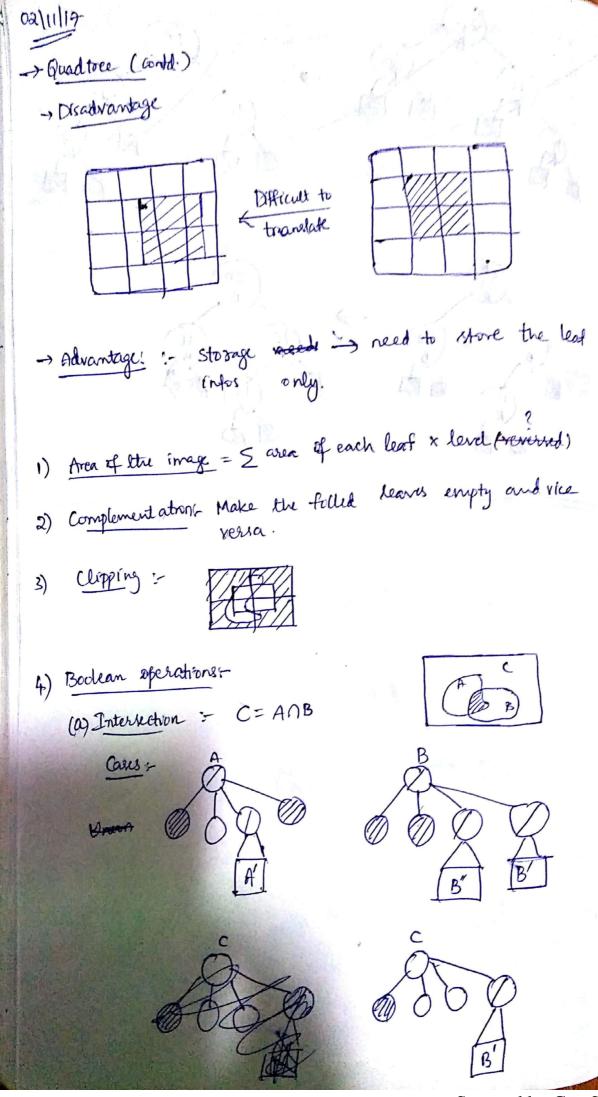
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of Birary Tree using Hashing. i) Top View 1) Print 11) Vertical Order



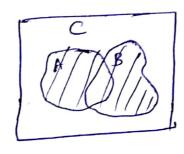
42137 Top view:

Vertical order! 156 8



- i) It at any equal level both AEB nodes are completely fired than include that node onc.
- the corresponding rade one will also be empty.
- ii) When one of the rodes is completely filled and the other is semi-filled, attach the expansion of the semifilled node to C.
- iv) It both nodes are semifilled expand that corresponding nodes on C and go to set step 1.

(b) Union C-AUB



(c) Difference

C = A-B = ANB

