Iterative or recursive ----]

$O(u)$
$O(\log u)$
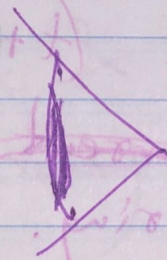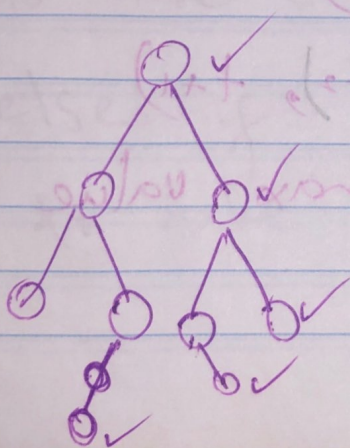
Atlas

iterative
    use queue & ~~take~~ add last element of each
    level.

recursive
    pass the level as a parameter.
    right side, leftside order.