Binary Tree Level Order Traversal (BFS) a binony tree, return the Fx) (9) Input: root = [3,9,20, null, null, 15,1] Dupot: [[3], [9,20], [15,1]] Algorithm : BFS Kkey concept: 'Level Order' Traversal # base case: reaching new level (9) 20 if /en(out) == level : out append ([]) (1) # Store values on each level Out [level] append (node, val) traverse (3,0) # traverse left to right > Out appear ((3) > out(0) appear (7) > traverse (9,1), Stack (traverse (20,1)) if node left: traverse (node.left, level+1)  $\Rightarrow$  traverse [9,1)  $\Rightarrow$  out appead([])  $\Rightarrow$  out[1] appead(9) it node right: traverse (node right, level +1) > traverse (20,1) = out[], append(20) + traverse (15,2), stack(traverse (1,2)) trowere (15,2) + out append (13) +out(2), append (15)

traverse (1,2) + out [2], expand(1)