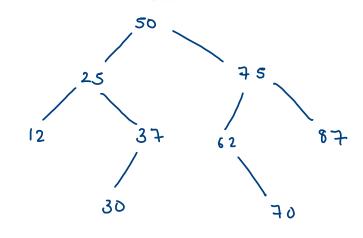
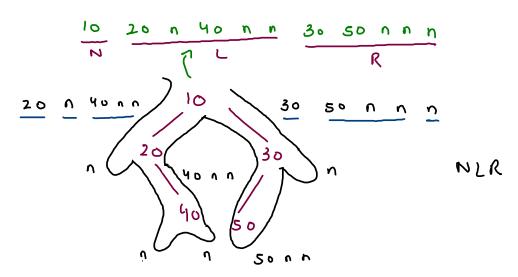
Construct Bst From Levelorder Traversal



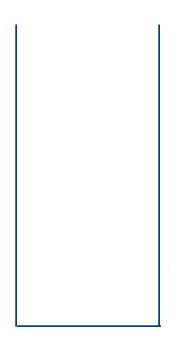
Jew: S٥ 12 -0,25,251 25,50,251 50,7/5,75 50 00, 50 301 30R 701 70R 50,62, 62' 62,75,62' 75,87,87 187,00,871 37,80,37 Pair: 10,00, parent

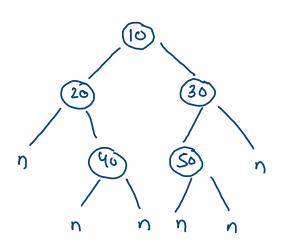
297. Serialize and Deserialize Binary Tree

Serialize



10 20 n 40 n n 30 50 n n n



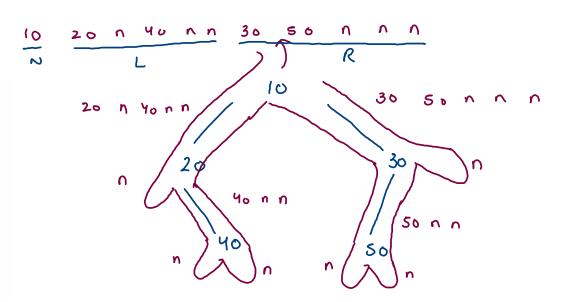


•

```
// Encodes a tree to a single string.
public String serialize(TreeNode root) {
   if(root == null) {
      return "n";
   }

   String la = serialize(root.left);
   String ra = serialize(root.right);

   return root.val + " " + la + " " +ra;
}
```



```
int idx;
public TreeNode deserialize(String data) {
   String[]arr = data.split(" ");
                                                                            40 n n
                                                                                             ە 3
                                                         10
                                                                                                      50
   idx = 0;
   return helper(arr);
public TreeNode helper(String[]arr) {
   if(arr[idx].equals("n") == true) {
       idx++;
       return null;
                                                                     20
   else {
       TreeNode node = new TreeNode(Integer.parseInt(arr[idx]));
       idx++;
                                                                n
       node.left = helper(arr);
       node.right = helper(arr);
       return node;
```

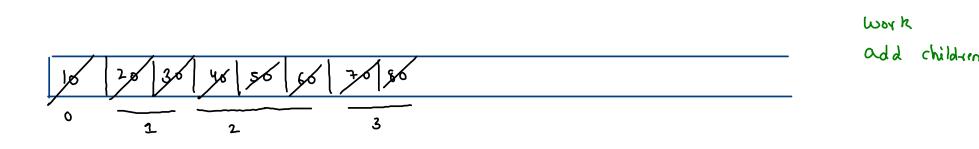
Jevel-order (normal)

10
20 30 40 50 60

40 50 60

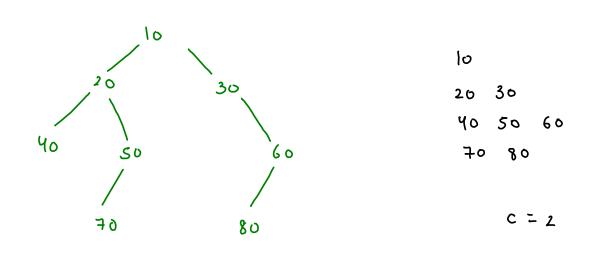
6 F

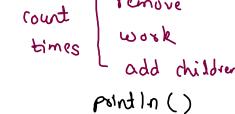
80



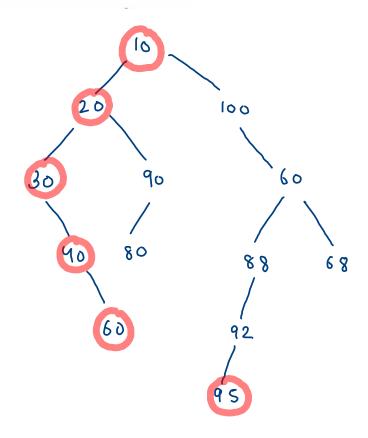
remove

Level order (Linewise)

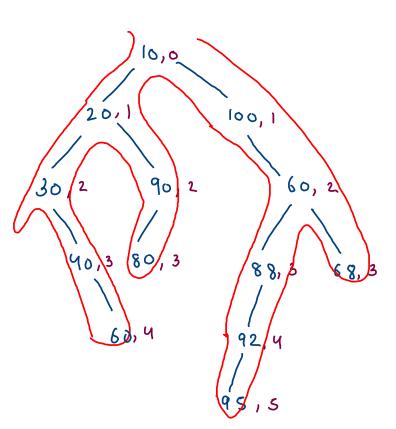




Left View of Binary Tree \square



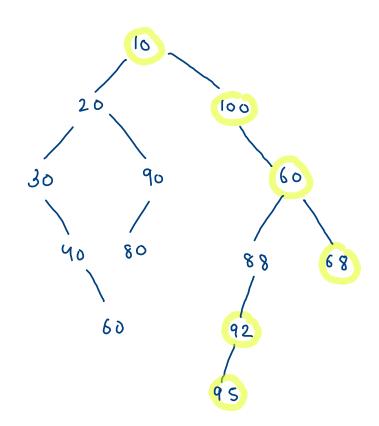
dest view: each Jenel's jirst node.



dfs

Ju: 10 20 30 40 60 95

right view



right view = Jast node of each Jevel