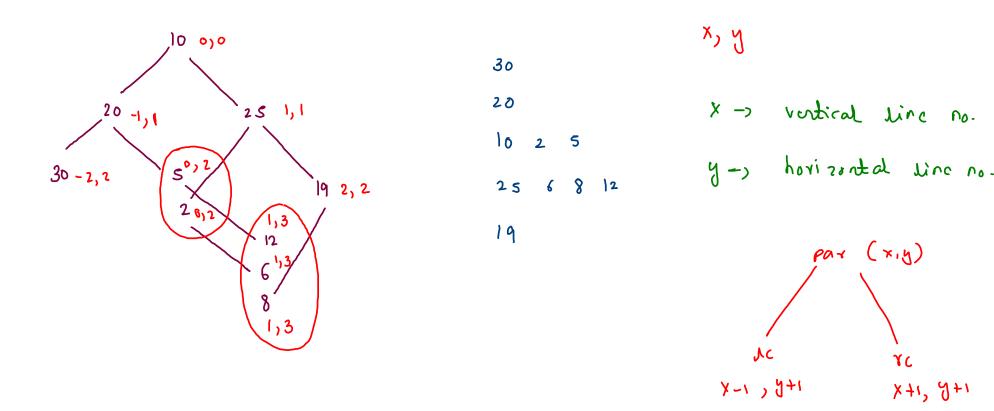
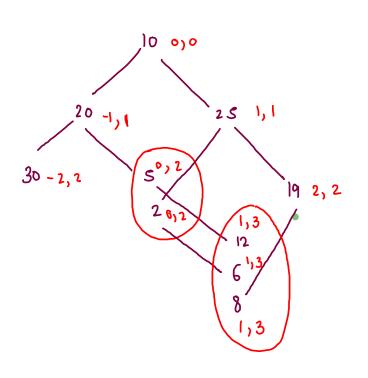
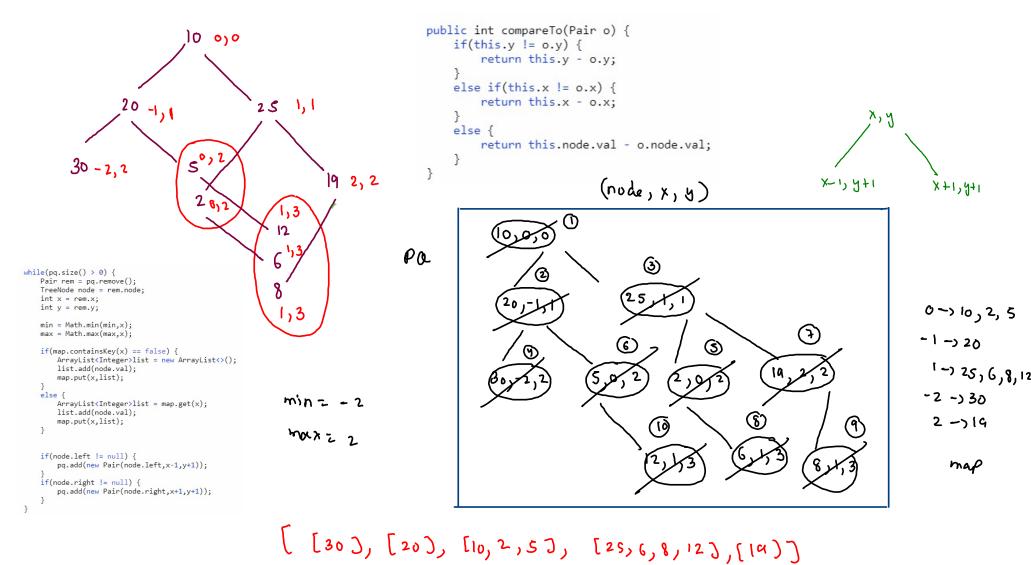
Vertical Order Traversal of a Binary Tree

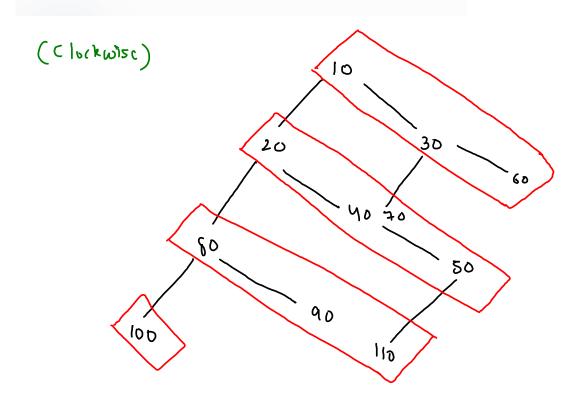


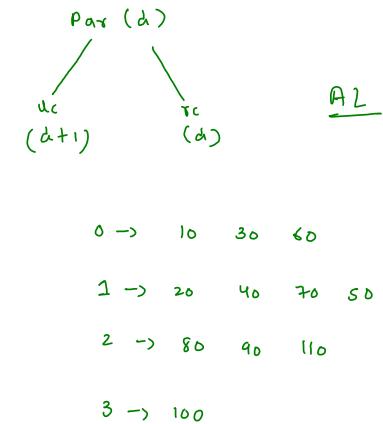


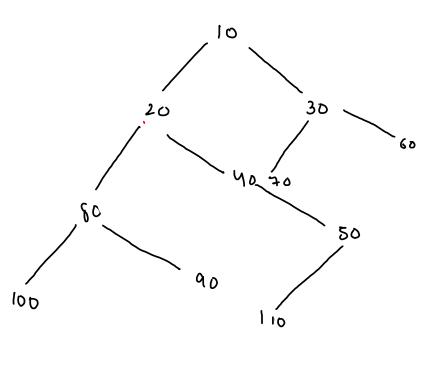
Pair: node X y compone priority 15-1 priority × 3rd priority



Diagonal Order Of A Binarytree

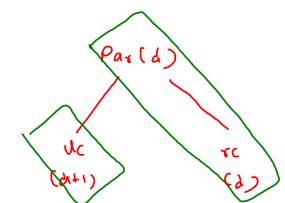


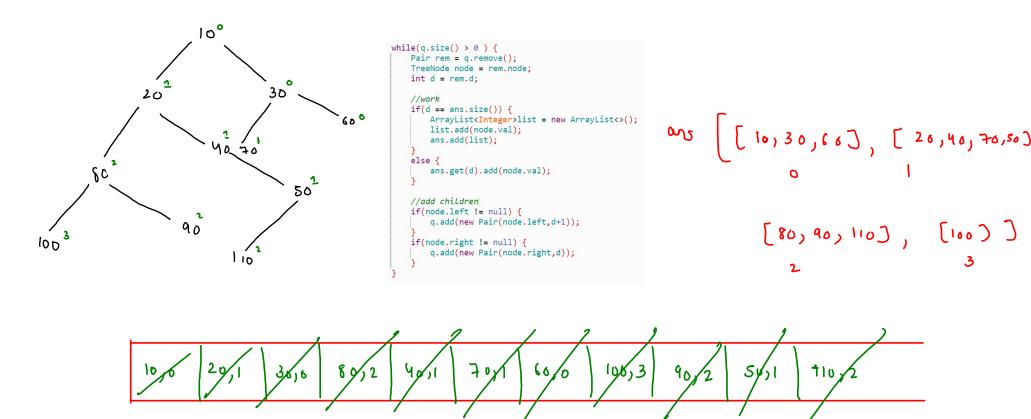




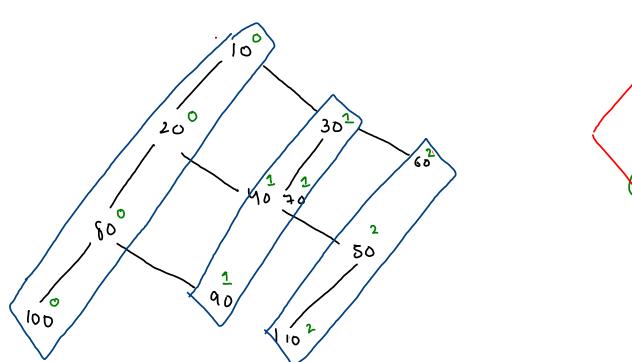
10 0 -> 10,30,60 1 -> 20,40,70,50 2 -> 80,90,110

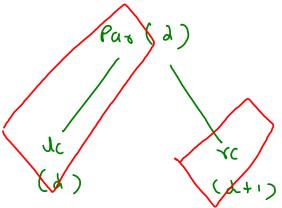
100





Anticlockwise:

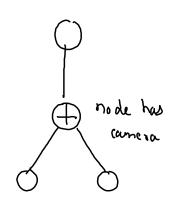


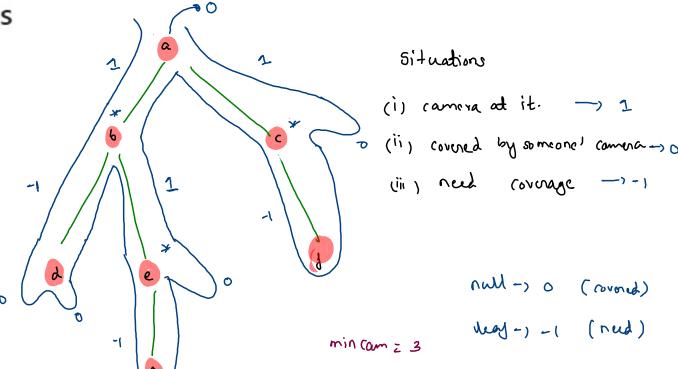


968. Binary Tree Cameras

You are given the root of a binary tree. We install cameras on the tree nodes where each camera at a node can monitor its parent, itself, and its immediate children.

Return the minimum number of cameras needed to monitor all nodes of the tree.





Node situation (i) camera at it ___ 2 (ii) covered by someone's cam-) 0 (iii) not covered -) -(

ij (lc==-1 | | rc ==-1) {

mincon++;

return 1;

else ij (lc==1 | | rc==1) {

return 0;

}

else {

return -1;

}

min ram = 4

```
public int minCameraCover(TreeNode root) {
    minCam = 0;
    int state = helper(root);
                                                              0
    if(state == -1) {
        minCam++;
    return minCam;
                                                                                                                       mincam= & xx
                                                                                                  m
public static int helper(TreeNode root) {
   if(root == null) {
                                                                              0
       return 0:
   int lcs = helper(root.left);
                                                                                                   0
   int rcs = helper(root.right);
   if(lcs == -1 || rcs == -1) {
       //you have to place camera at yourself
       minCam++;
       return 1;
                                                                    6
   else if(lcs == 1 || rcs == 1) {
       //due to camera on a child, I am covered
       return 0;
   else {
       //i am not covered
       return -1;
```