```
// Definition for a Node.
class Node {
  public int val;
  public Node left;
  public Node right;
  public Node next;
  public Node() {}
  public Node(int _val,Node _left,Node _right,Node _next) {
     val = val;
     left = _left;
     right = _right;
     next = _next;
};
*/
class Solution {
  public Node connect(Node root) {
     Node itr = root;
     while (itr != null) {
        Node node = itr;
        while (node != null) {
          if (node.left != null) {
             node.left.next = node.right;
          if (node.right != null && node.next != null) {
             node.right.next = node.next.left;
          node = node.next;
        itr = itr.left;
     return root;
  }
```