Solution 1

```java
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import java.util.*;

class Program {
  // O(n) time | O(d) space - where n is the number of nodes in
  // the Binary Tree and d is the depth (height) of the Binary Tree
  public static BinaryTree rightSiblingTree(BinaryTree root) {
    mutate(root, null, false);
    return root;
  }

  public static void mutate(BinaryTree node, BinaryTree parent, boolean isLeftChild) {
    if (node == null) return;

    var left = node.left;
    var right = node.right;
    mutate(left, node, true);
    if (parent == null) {
      node.right = null;
    } else if (isLeftChild) {
      node.right = parent.right;
    } else {
      if (parent.right == null) {
        node.right = null;
      } else {
        node.right = parent.right.left;
      }
    }
    mutate(right, node, false);
  }

  static class BinaryTree {
    int value;
    BinaryTree left = null;
    BinaryTree right = null;

    public BinaryTree(int value) {
      this.value = value;
    }
  }
}

```