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package binarytree;

// Java implementation to find leaf count of a given Binary tree

/* Class containing left and right child of current
node and key value*/

class BinaryTree90
{
    //Root of the Binary Tree
    Node root;

    /* Function to get the count of leaf nodes in a binary tree*/
    int getLeafCount()
    {
        return getLeafCount(root);
    }

    int getLeafCount(Node node)
    {
        if (node == null)
            return 0;
        if (node.left == null && node.right == null)
            return 1;
        else
            return getLeafCount(node.left) + getLeafCount(node.right);
    }

    /* Driver program to test above functions */
    public static void main(String args[])
    {
        /* create a tree */
        BinaryTree90 tree = new BinaryTree90();
        tree.root = new Node(1);
        tree.root.left = new Node(2);
        tree.root.right = new Node(3);
        tree.root.left.left = new Node(4);
        tree.root.left.right = new Node(5);

        /* get leaf count of the above tree */
        System.out.println("The leaf count of binary tree is : "
            + tree.getLeafCount());
    }
}

// This code has been contributed by Mayank Jaiswal(mayank_24)
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