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package binarytree;
// Java program to find height of tree

// A binary tree node

class BinaryTree87
{
    Node root;

    /* Compute the "maxDepth" of a tree -- the number of
    nodes along the longest path from the root node
    down to the farthest leaf node.*/
    int maxDepth(Node node)
    {
        if (node == null)
            return 0;
        else
        {
            /* compute the depth of each subtree */
            int lDepth = maxDepth(node.left);
            int rDepth = maxDepth(node.right);

            /* use the larger one */
            if (lDepth > rDepth)
                return (lDepth + 1);
            else
                return (rDepth + 1);
        }
    }

    /* Driver program to test above functions */
    public static void main(String[] args)
    {
        BinaryTree87 tree = new BinaryTree87();

        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);

        System.out.println("Height of tree is : " +
            tree.maxDepth(tree.root));
    }
}

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