

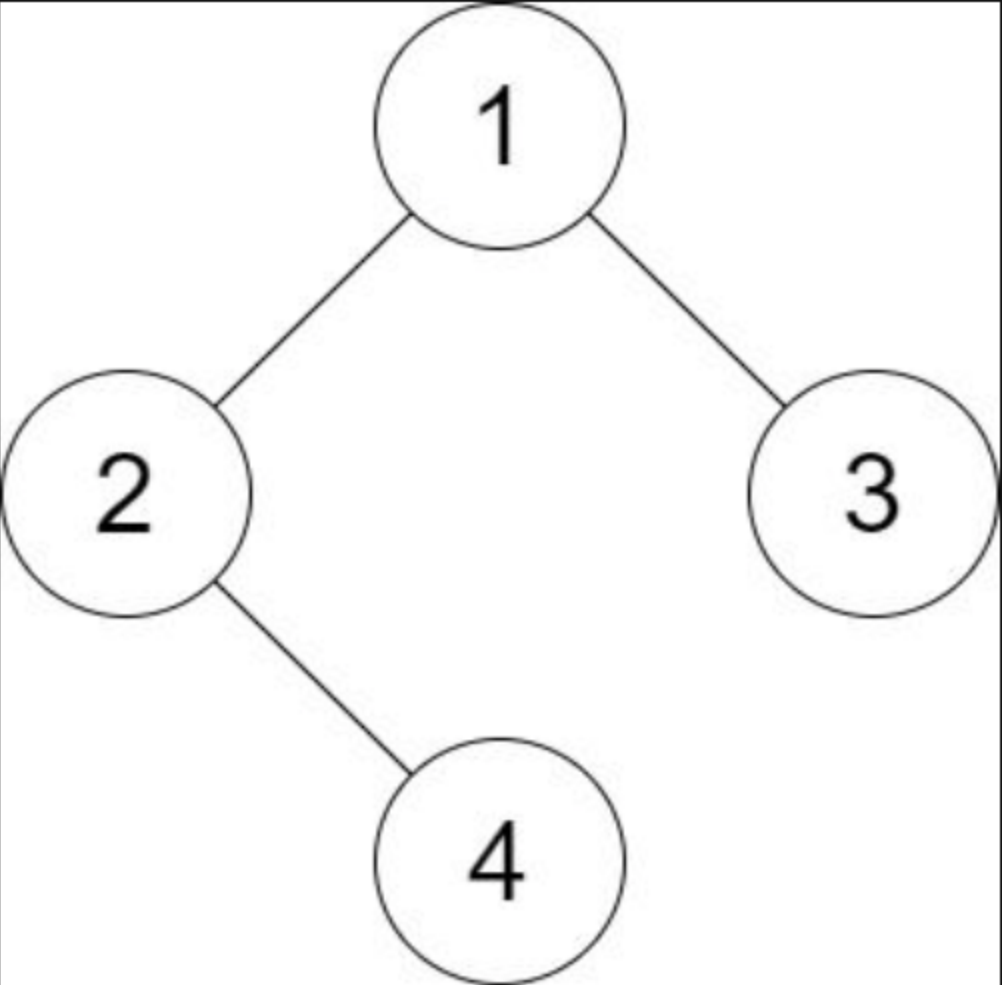
# 1530. Number of Good Leaf Nodes Pairs

## Description

You are given the `root` of a binary tree and an integer `distance`. A pair of two different **leaf** nodes of a binary tree is said to be good if the length of the **shortest path** between them is less than or equal to `distance`.

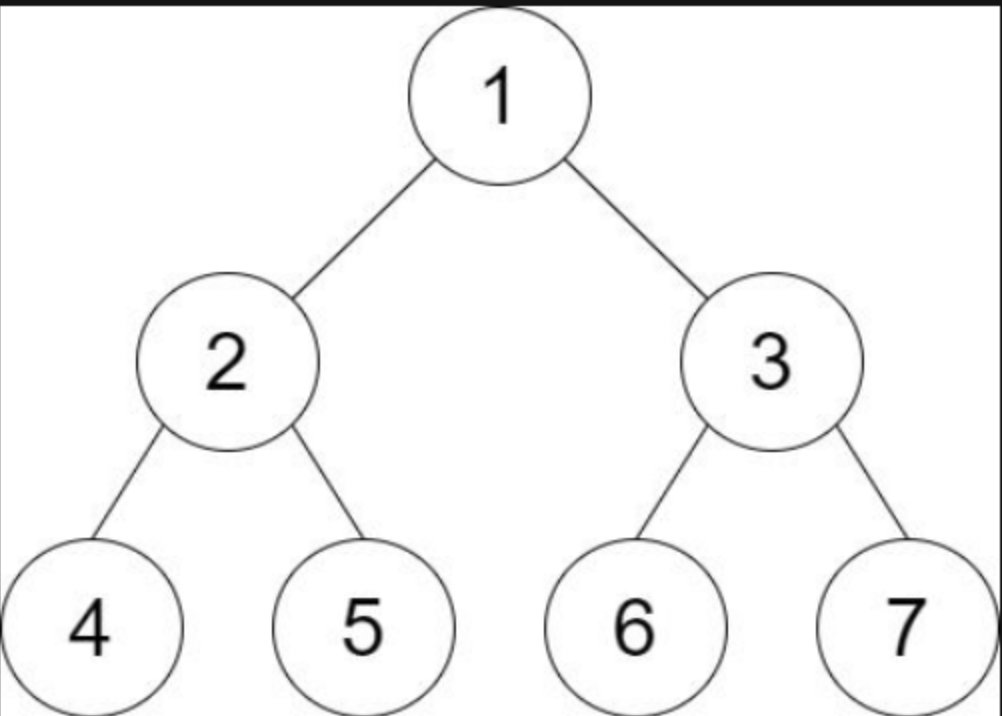
Return *the number of good leaf node pairs* in the tree.

### Example 1:



**Input:** `root = [1,2,3,null,4]`, `distance = 3`  
**Output:** `1`  
**Explanation:** The leaf nodes of the tree are 3 and 4 and the length of the shortest path between them is 3. This is the only good pair.

### Example 2:



**Input:** `root = [1,2,3,4,5,6,7]`, `distance = 3`  
**Output:** `2`  
**Explanation:** The good pairs are [4,5] and [6,7] with shortest path = 2. The pair [4,6] is not good because the length of their shortest path between them is 4.

### Example 3:

**Input:** `root = [7,1,4,6,null,5,3,null,null,null,null,2]`, `distance = 3`  
**Output:** `1`  
**Explanation:** The only good pair is [2,5].

### Constraints:

- The number of nodes in the `tree` is in the range `[1, 210]`.
- `1 <= Node.val <= 100`
- `1 <= distance <= 10`

