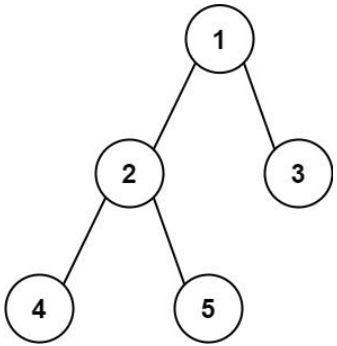
Diameter of Binary Tree

Challenge name: diameter-binary-tree

Description:

- Given the root of a binary tree, return the length of the diameter of the tree.
- The diameter of a binary tree is the length of the longest path between any two nodes in a tree. This path may or may not pass through the root.
- The length of a path between two nodes is represented by the number of edges between them.

Example 1:



Input: root = [1,2,3,4,5]
Output: 3
Explanation: 3 is the length of the path [4,2,1,3] or [5,2,1,3].

Example 2:

Input: root = [1,2]
Output: 1

Constraints:

- The number of nodes in the tree is in the range [1, 104].
- -100 <= Node.val <= 100

After completing the challenge please submit it in this form.