[LeetCode](https://leetcode.com/problems/diameter-of-binary-tree/?envType=daily-question&envId=2024-02-27)

<https://github.com/AdityaKonda6/-50DaysOfCoding>

<https://leetcode.com/problems/diameter-of-binary-tree/?envType=daily-question&envId=2024-02-27>

<https://www.linkedin.com/in/aditya-adi-konda/>

 Day 8 of [#50dayscodingchallenge](https://www.linkedin.com/feed/hashtag/?keywords=50dayscodingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633):  
[#leetcode](https://www.linkedin.com/feed/hashtag/?keywords=leetcode&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodechallenge](https://www.linkedin.com/feed/hashtag/?keywords=leetcodechallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodestreak](https://www.linkedin.com/feed/hashtag/?keywords=leetcodestreak&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode2024](https://www.linkedin.com/feed/hashtag/?keywords=leetcode2024&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode50day](https://www.linkedin.com/feed/hashtag/?keywords=leetcode50day&highlightedUpdateUrns=urn:li:activity:7166316239483461633)  
   
Just kicked off my coding journey with a fascinating problem - "Successfully solved LeetCode Problem “543. Diameter of Binary Tree” !”  
   
✨ Task: This task involves determining if two binary trees are not only structurally identical but also if their nodes boast identical values.

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].

Let's Connect:

If you find this problem intriguing or have insights to share, let's connect! I'm passionate about problem-solving, algorithmic thinking, and collaborative learning. Feel free to comment or reach out for engaging discussions and knowledge exchange.Unravel the mystery using your coding skills!

[#CodingChallenge](https://www.linkedin.com/feed/hashtag/?keywords=codingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#Algorithm](https://www.linkedin.com/feed/hashtag/?keywords=algorithm&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#LinkedInPost](https://www.linkedin.com/feed/hashtag/?keywords=linkedinpost&highlightedUpdateUrns=urn:li:activity:7166316239483461633) #Algorithm #Optimization #DataStructures #CodingChallenge  
  
Excited about the progress and challenges ahead!  
   
Make Sure You Follow My GitHub For Solutions: [https://lnkd.in/d7EApJ2m](https://lnkd.in/d7EApJ2m" \t "https://www.linkedin.com/feed/_self)  
  
  
Happy coding!

**Solution:-**

class Solution {

  public int diameterOfBinaryTree(TreeNode root) {

    maxDepth(root);

    return ans;

  }

  private int ans = 0;

  int maxDepth(TreeNode root) {

    if (root == null)

      return 0;

    final int l = maxDepth(root.left);

    final int r = maxDepth(root.right);

    ans = Math.max(ans, l + r);

    return 1 + Math.max(l, r);

  }

}

