

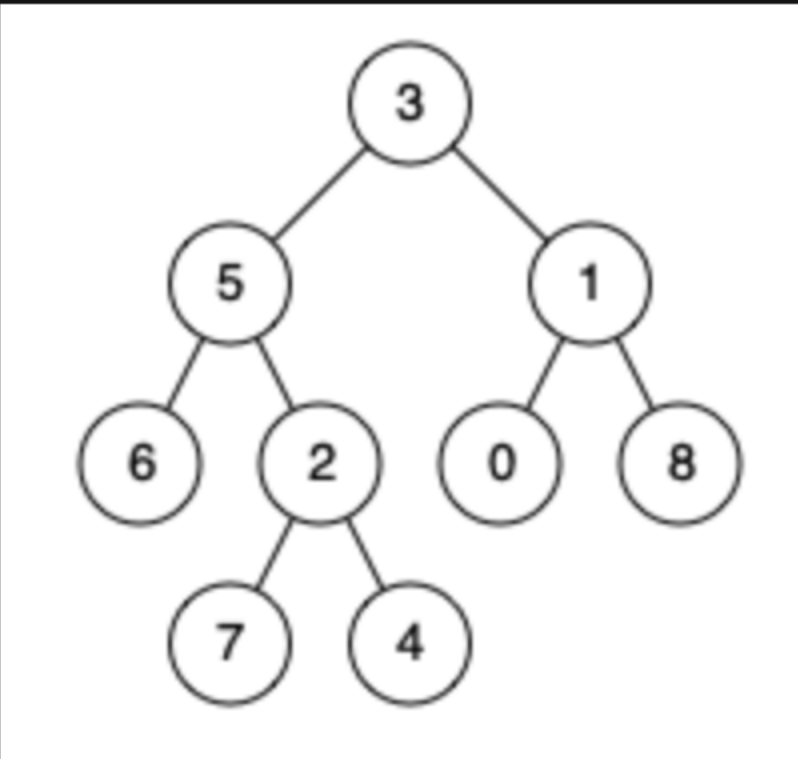
# 1740. Find Distance in a Binary Tree

## Description

Given the root of a binary tree and two integers `p` and `q` , return *the distance between the nodes of value `p` and value `q` in the tree* .

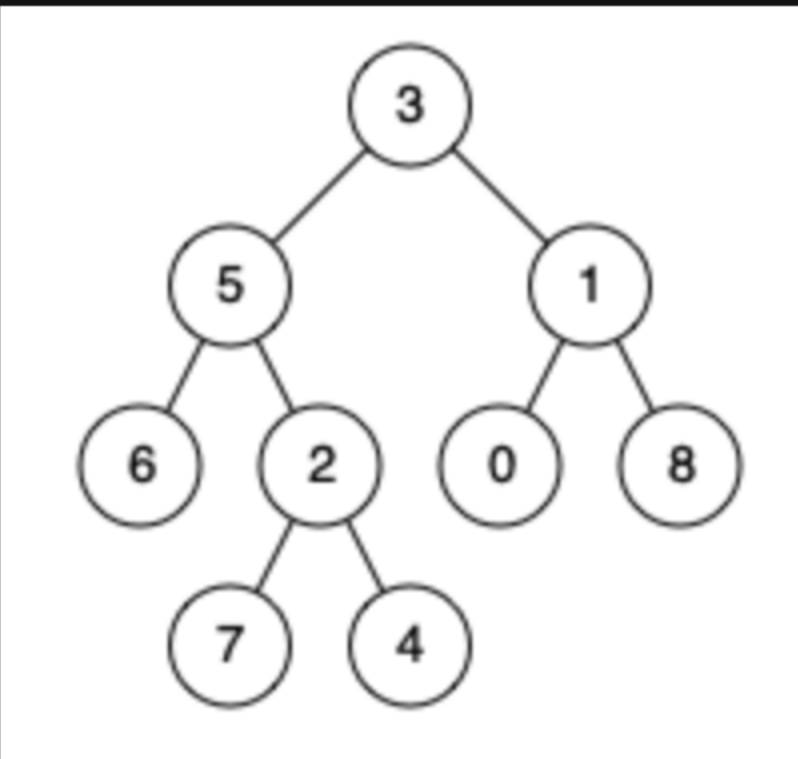
The **distance** between two nodes is the number of edges on the path from one to the other.

### Example 1:



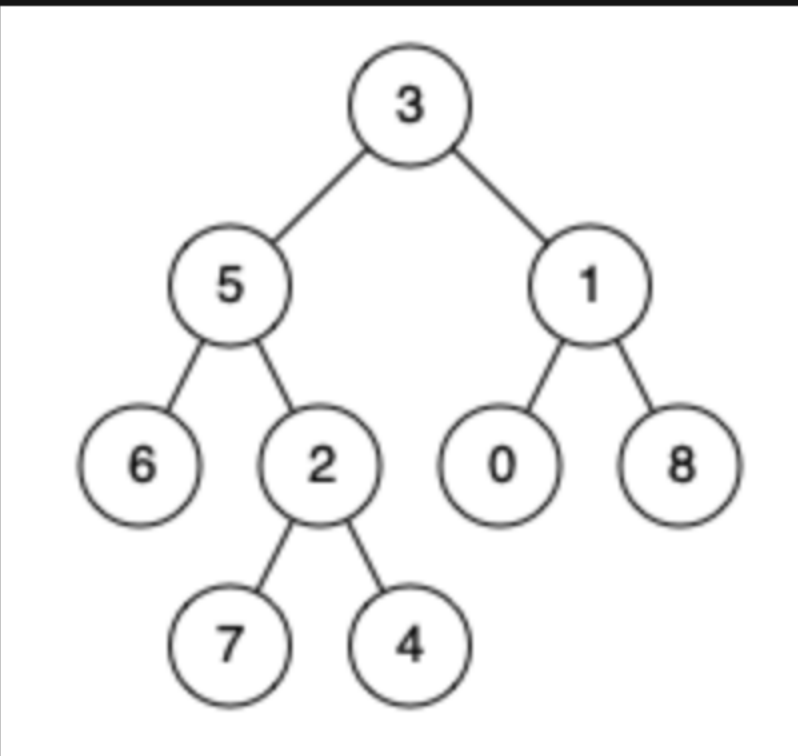
**Input:** root = [3,5,1,6,2,0,8,null,null,7,4], p = 5, q = 0  
**Output:** 3  
**Explanation:** There are 3 edges between 5 and 0: 5-3-1-0.

### Example 2:



**Input:** root = [3,5,1,6,2,0,8,null,null,7,4], p = 5, q = 7  
**Output:** 2  
**Explanation:** There are 2 edges between 5 and 7: 5-2-7.

### Example 3:



**Input:** root = [3,5,1,6,2,0,8,null,null,7,4], p = 5, q = 5  
**Output:** 0  
**Explanation:** The distance between a node and itself is 0.

### Constraints:

- The number of nodes in the tree is in the range `[1, 104]` .
- `0 <= Node.val <= 109`
- All `Node.val` are **unique** .
- `p` and `q` are values in the tree.

