

1644. Lowest Common Ancestor of a Binary Tree II

Medium

👍 508

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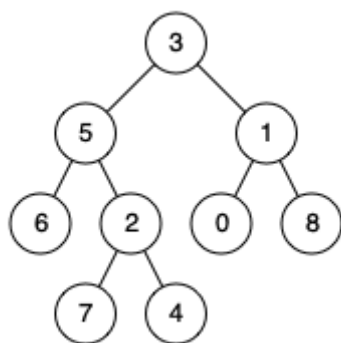
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Given the `root` of a binary tree, return *the lowest common ancestor (LCA) of two given nodes, p and q* . If either node p or q **does not exist** in the tree, return `null`. All values of the nodes in the tree are **unique**.

According to the **definition of LCA on Wikipedia**: "The lowest common ancestor of two nodes p and q in a binary tree T is the lowest node that has both p and q as **descendants** (where we allow **a node to be a descendant of itself**). A **descendant** of a node x is a node y that is on the path from node x to some leaf node.

Example 1:

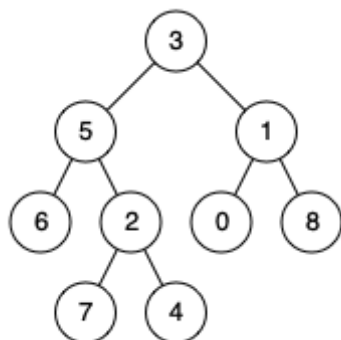


Input: `root = [3,5,1,6,2,0,8,null,null,7,4]`, `p = 5`, `q = 1`

Output: 3

Explanation: The LCA of nodes 5 and 1 is 3.

Example 2:



Input: `root = [3,5,1,6,2,0,8,null,null,7,4]`, `p = 5`, `q = 4`

Output: 5