1612. Check If Two Expression Trees are Equivalent Medium © topics @Companies Q Hint A binary expression tree is a kind of binary tree used to represent arithmetic expressions. Each node of a binary expression tree has either zero or two children. Leaf nodes (nodes with 0 children) correspond to operands (variables), and internal nodes (nodes with two children) correspond to the operators. In this problem, we only consider the [4] operator (i.e. addition). You are given the roots of two binary expression trees, root1 and root2. Return true if the two binary expression trees are equivalent. Otherwise, return false. Two binary expression trees are equivalent if they evaluate to the same value regardless of what the variables are set to. Example 1: Input: root1 = [x], root2 = [x] Output: true Example 2:

Easy

Evaluate Boolean Binary Tree

(b)

Explanation: a + (b + c) == (b + c) + a

Explanation: a + (b + c) != (b + d) + a

• Node.val is '+' or a lower-case English letter.

Seen this question in a real interview before? 1/5

Input: root1 = [+,a,+,null,null,b,c], root2 = [+,+,a,b,c]

Input: root1 = [+,a,+,null,null,b,c], root2 = [+,+,a,b,d]

• The number of nodes in both trees are equal, odd and, in the range [1, 4999].

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Hash Table Tree Depth-First Search Binary Tree Counting

Count for each variable how many times it appeared in the first tree.

Build Binary Expression Tree From Infix Expression 🚡

Minimum Flips in Binary Tree to Get Result 🍖

Do the same for the second tree and check if the count is the same for both tree.

Follow up: What will you change in your solution if the tree also supports the properties operator (i.e. subtraction)?

• It's guaranteed that the tree given is a valid binary expression tree.

C

Output: true

Output: false

Constraints:

Yes No

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Example 3: