

## 894. All Possible Full Binary Trees

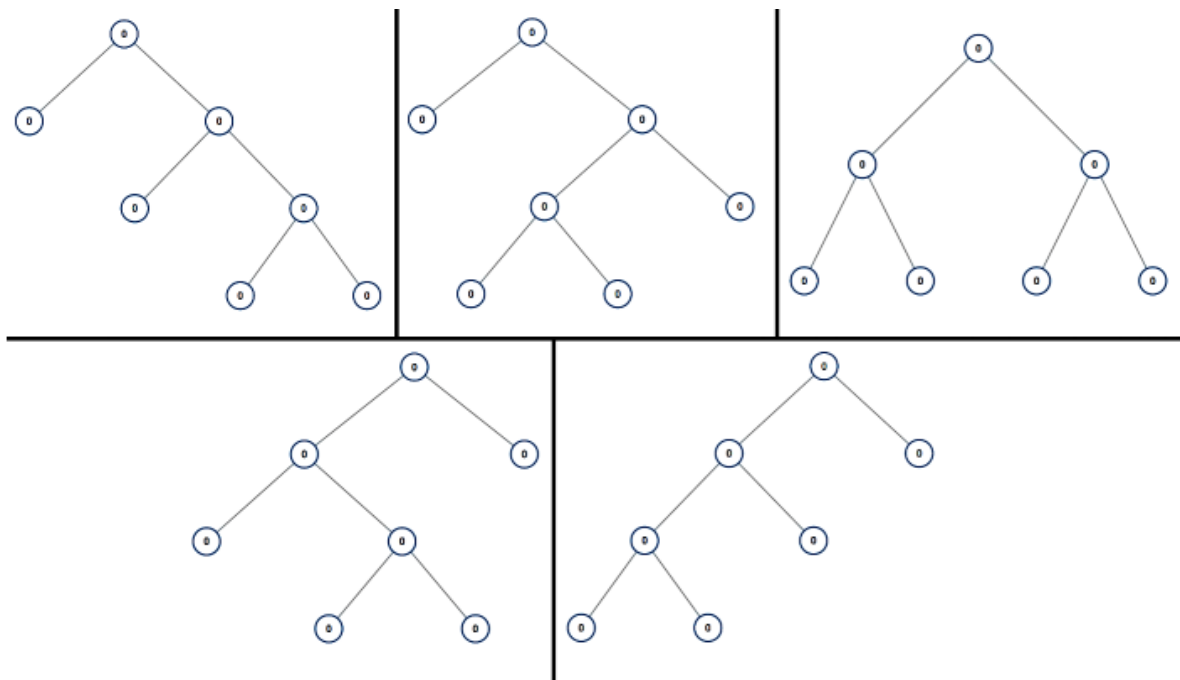
Medium  Topics  Companies

Given an integer  $n$ , return *a list of all possible **full binary trees** with  $n$  nodes*. Each node of each tree in the answer must have `Node.val = 0`.

Each element of the answer is the root node of one possible tree. You may return the final list of trees in **any order**.

A **full binary tree** is a binary tree where each node has exactly 0 or 2 children.

Example 1:



Input:  $n = 7$

Output: `[[0,0,0,null,null,0,0,null,null,0,0],[0,0,0,null,null,0,0,0,0],[0,0,0,0,0,0,0,0],[0,0,0,0,0,0,null,0],[0,0,0,0,0,0,0,0]]`

Example 2:

Input:  $n = 3$

Output: `[[0,0,0]]`

Constraints:

- $1 \leq n \leq 20$

Seen this question in a real interview before? 1/4

Yes No

Accepted 175.5K Submissions 212.1K Acceptance Rate 82.7%

 Topics

 Companies

 Discussion (46)