1367. Linked List in Binary Tree

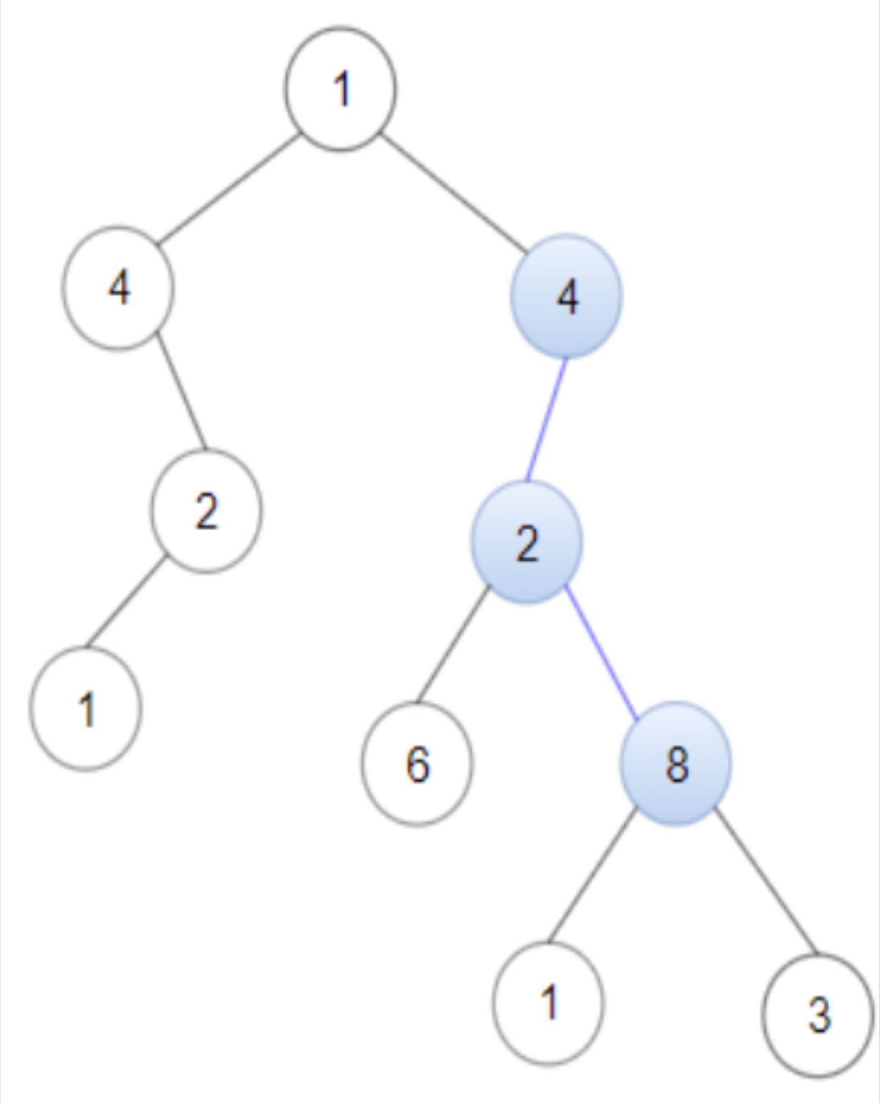
Description

Given a binary tree `root` and a linked list with `head` as the first node.

Return True if all the elements in the linked list starting from the `head` correspond to some *downward path* connected in the binary tree otherwise return False.

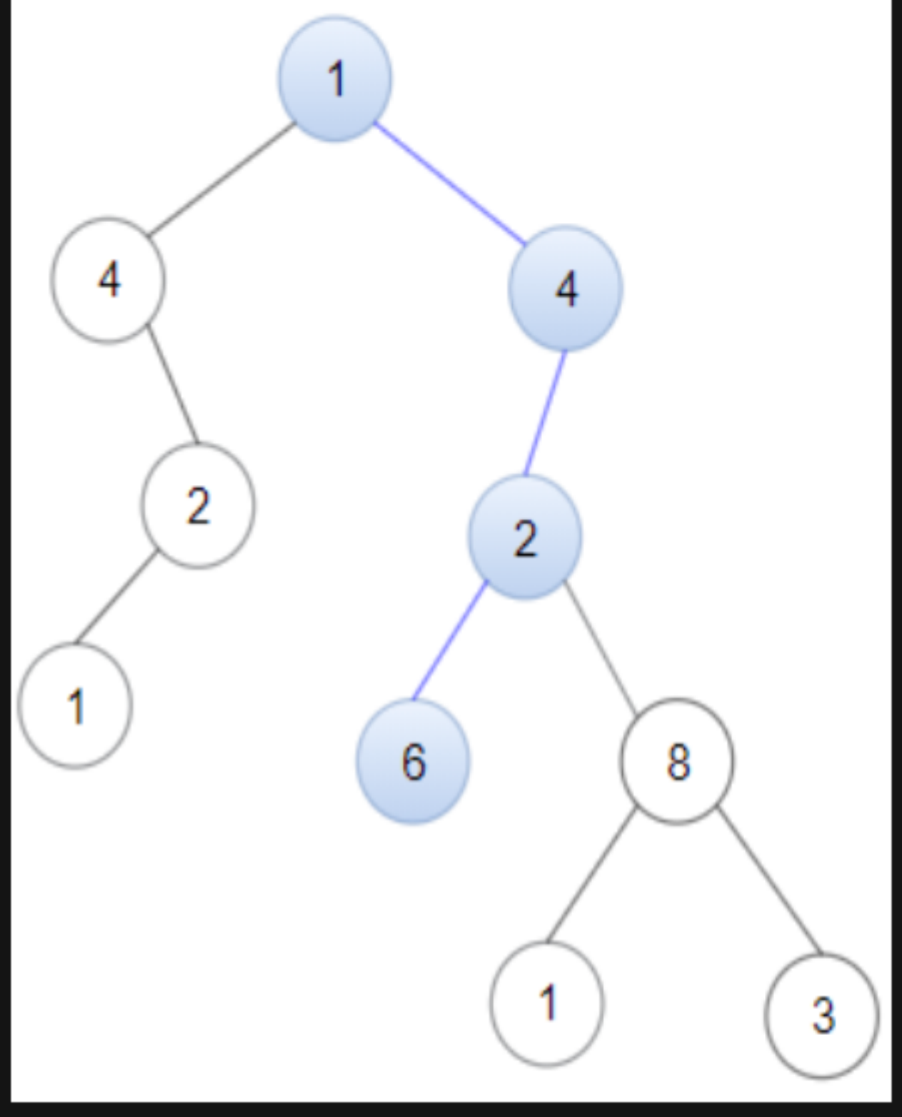
In this context downward path means a path that starts at some node and goes downwards.

Example 1:



```
Input: head = [4,2,8], root = [1,4,4,null,2,2,null,1,null,6,8,null,null,null,null,1,3]
Output: true
Explanation: Nodes in blue form a subpath in the binary Tree.
```

Example 2:



```
Input: head = [1,4,2,6], root = [1,4,4,null,2,2,null,1,null,6,8,null,null,null,null,1,3]
Output: true
```

Example 3:

```
Input: head = [1,4,2,6,8], root = [1,4,4,null,2,2,null,1,null,6,8,null,null,null,null,1,3]
Output: false
Explanation: There is no path in the binary tree that contains all the elements of the linked list from head.
```

Constraints:

- The number of nodes in the tree will be in the range `[1, 2500]`.
- The number of nodes in the list will be in the range `[1, 100]`.
- `1 <= Node.val <= 100` for each node in the linked list and binary tree.