



Peregrin

★ 62

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1 VIEWS

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class Solution(object):
    def getLonelyNodes(self, root):
        if not root:
            return []

        # DFS stack will hold pairs (node:TreeNode, is_lonely:bool)
        # root is not lonely by project statement
        st = [(root, 0)]

        res = []
        while st:
            r, is_lonely = st.pop()
            if is_lonely:
                res.append(r.val)
            # use Python trick:
            # 1 * True = 1
            # 1 * False = 0

            cn = (r.left is not None) * 1 + (r.right is not None) * 1

            # put children in DFS stack

            if r.left:
                st.append((r.left, cn == 1))

            if r.right:
                st.append((r.right, cn == 1))

        return res
```

python

iterative

simple solution