Path Sum - LeetCode

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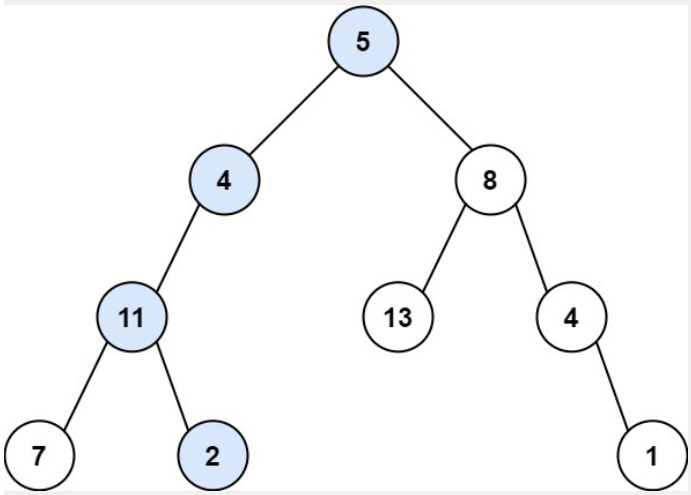
112. Path Sum

Given the `root` of a binary tree and an integer `targetSum`, return `true` if the tree has a **root-to-leaf** path such that adding up all the values along the path equals `targetSum`.

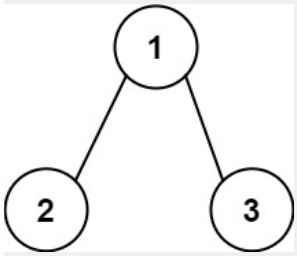
A **leaf** is a node with no children.

Example 1:



> **Input:** root = [5,4,8,11,null,13,4,7,2,null,null,null,1], targetSum = 22
> **Output:** true
> **Explanation:** The root-to-leaf path with the target sum is shown.

Example 2:



> **Input:** root = [1,2,3], targetSum = 5
> **Output:** false
> **Explanation:** There two root-to-leaf paths in the tree:
> (1 --> 2): The sum is 3.
> (1 --> 3): The sum is 4.
> There is no root-to-leaf path with sum = 5.

Example 3:

> **Input:** root = [], targetSum = 0
> **Output:** false
> **Explanation:** Since the tree is empty, there are no root-to-leaf paths.

Constraints:

- The number of nodes in the tree is in the range `[0, 5000]`.
- `-1000 <= Node.val <= 1000`
- `-1000 <= targetSum <= 1000`