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:**

A diagram of a tree

Description automatically generated

**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:**

A diagram of a connected structure

Description automatically generated with medium confidence

**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

Accepted

1.3M

Submissions

2.6M

Acceptance Rate

49.1%