

LeetCode

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Description

Solution

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C++

339. Nested List Weight Sum

Medium

1548

354

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You are given a nested list of integers `nestedList`. Each element is either an integer or a list whose elements may also be integers or other lists.

The **depth** of an integer is the number of lists that it is inside of. For example, the nested list `[1, [2, 2], [[3], 2], 1]` has each integer's value set to its **depth**.

Return *the sum of each integer in `nestedList` multiplied by its **depth***.

Example 1:

nestedList = `[[1, 1], 2, [1, 1]]`

depth = `2 2 1 2 2`

Input: nestedList = `[[1,1],2,[1,1]]`

Output: 10

Explanation: Four 1's at depth 2, one 2 at depth 1.  $1*2 + 1*2 + 2*1 + 1*2 + 1*2 = 10$ .

Example 2:

nestedList = `[1, [4, [6]]]`

depth = `1 2 3`

Input: nestedList = `[1,[4,[6]]]`

Output: 27

Explanation: One 1 at depth 1, one 4 at depth 2, and one 6 at depth 3.  $1*1 + 4*2 + 6*3 = 27$ .

Example 3:

Input: nestedList = `[0]`

Output: 0

Constraints:

- `1 <= nestedList.length <= 50`
- The values of the integers in the nested list is in the range `[-100, 100]`.
- The maximum **depth** of any integer is less than or equal to `50`.

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https://leetcode.com/problems/nested-list-weight-sum/

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