Given a nested list of integers, return the sum of all integers in the list weighted by their depth.

Each element is either an integer, or a list -- whose elements may also be integers or other lists.

**Example 1:**

**Input:** [[1,1],2,[1,1]]

**Output:** 10

**Explanation:** Four 1's at depth 2, one 2 at depth 1.

**Example 2:**

**Input:** [1,[4,[6]]]

**Output:** 27

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