

1273. Delete Tree Nodes

Description

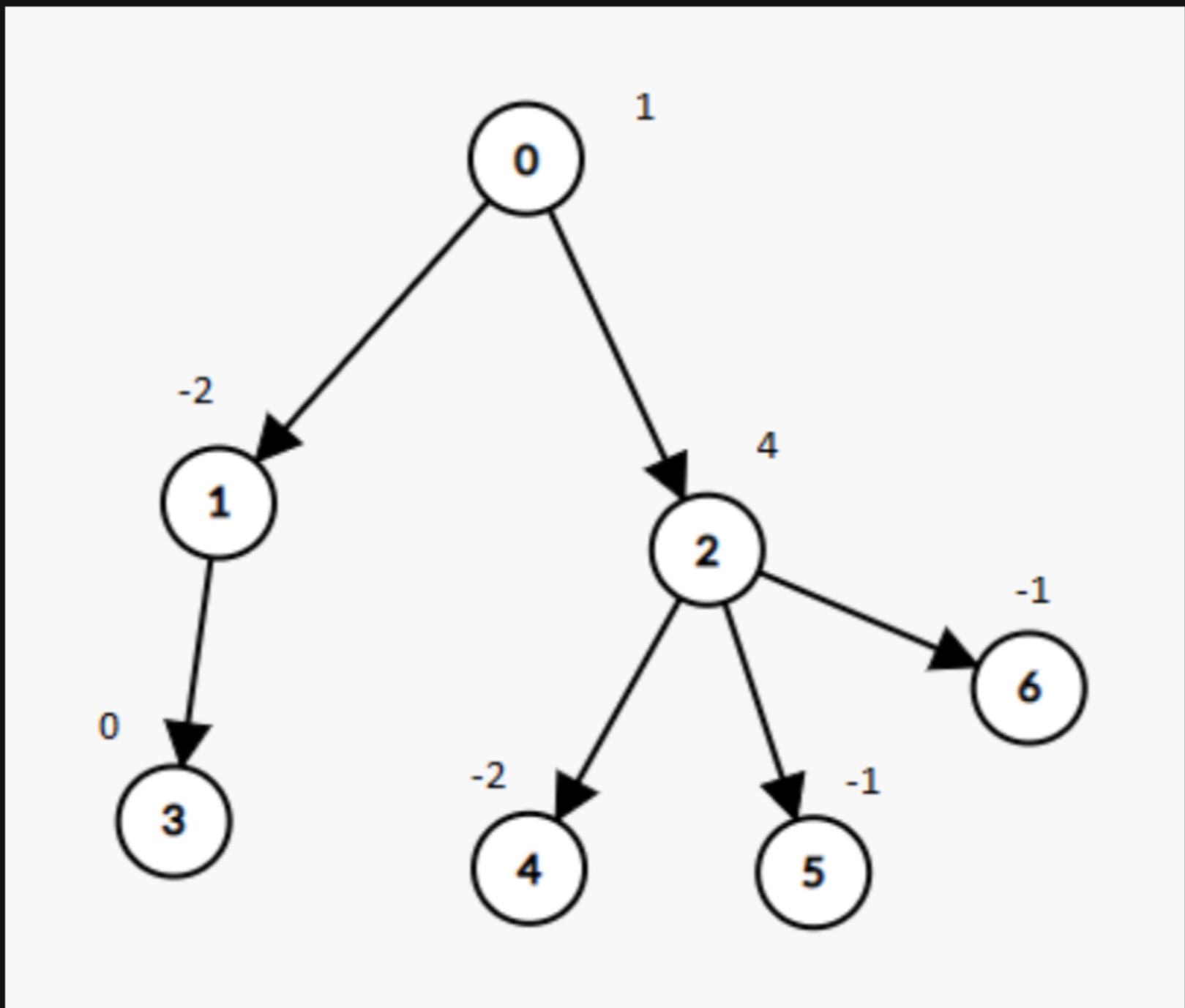
A tree rooted at node 0 is given as follows:

- The number of nodes is `nodes` ;
- The value of the `ith` node is `value[i]` ;
- The parent of the `ith` node is `parent[i]` .

Remove every subtree whose sum of values of nodes is zero.

Return *the number of the remaining nodes in the tree* .

Example 1:



Input: nodes = 7, parent = [-1,0,0,1,2,2,2], value = [1,-2,4,0,-2,-1,-1]
Output: 2

Example 2:

Input: nodes = 7, parent = [-1,0,0,1,2,2,2], value = [1,-2,4,0,-2,-1,-2]
Output: 6

Constraints:

- `1 <= nodes <= 104`
- `parent.length == nodes`
- `0 <= parent[i] <= nodes - 1`
- `parent[0] == -1` which indicates that `0` is the root.
- `value.length == nodes`
- `-105 <= value[i] <= 105`
- The given input is **guaranteed** to represent a **valid tree** .

