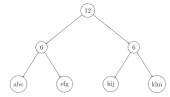


Input: root = [12,6,6,"abc","efg","hij","klm"], k = 3

Output: "c" Explanation: In the picture below, we put an integer on internal nodes that represents node.len, and a string on leaf nodes that represents node.val. You can see that S[root] = concat(concat("abc", "efg"), concat("hij", "klm")) = "abcefghijklm". So S[root][2], which represents the 3rd character of it, is equal to "c".



Example 3:

Input: root = ["ropetree"], k = 8
Output: "e"

Explanation: In the picture below, we put an integer on internal nodes that represents

node.len, and a string on leaf nodes that represents node.val.

You can see that S[root] = "ropetree". So S[root][7], which represents 8th character of it, is equal to "e".



- The number of nodes in the tree is in the range $[1, 10^3]$
- node.val contains only lowercase English letters
- 0 <= node.val.length <= 50
- 0 <= node.len <= 10⁴
- for leaf nodes, node.len = 0 and node.val is non-empty
- · for internal nodes, node, len > 0 and node, val is empty
- 1 <= k <= S[root].length

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