



Right View Binary Tree

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✓ Points: 100 (partial)

② Time limit: 1.0s

■ Memory limit: 64M

✓ Allowed languages

C

Given a binary tree, print the nodes from top to bottom that are visible when the tree is viewed from the right-hand side. The tree is represented by a **parent array**, where the index represents a node and the value at that index represents its parent's index. The root node is indicated by a parent value of -1.

Input Format

- The **first line** contains a single integer n, the number of nodes in the tree.
- The second line contains n space-separated integers representing the parent array. For each node
 i:
 - \circ If the value is [-1], then [i] is the root.
 - Otherwise, the value represents the index of node (i)'s parent.

Output Format

Print the nodes visible from the right-hand side of the tree in a single line, space-separated.

Example

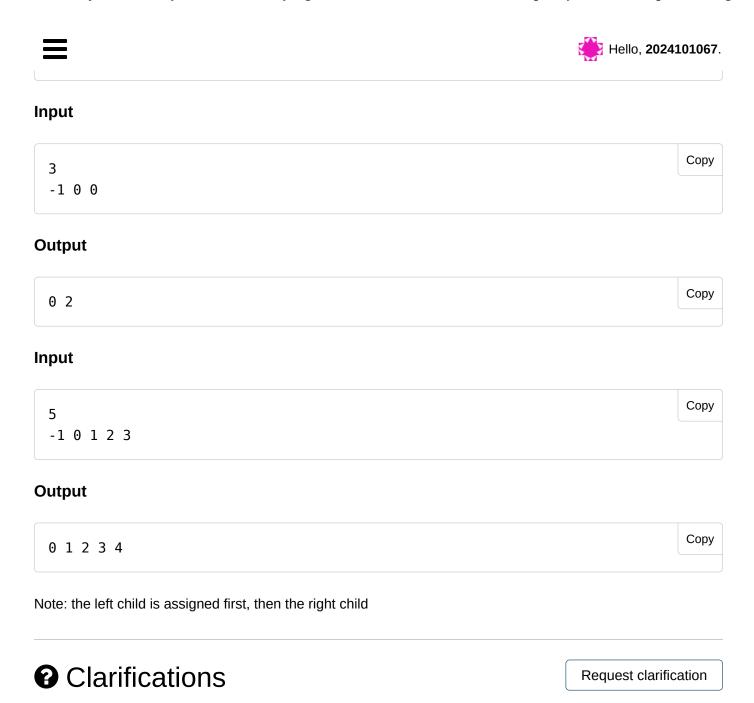
Input

7 -1 0 0 1 1 2 2

Output

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No clarifications have been made at this time.

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