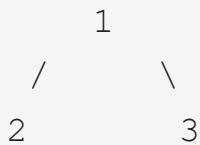


Root to Leaf Paths

Given a Binary Tree of size N, you need to find all the possible paths from root node to all the leaf node's of the binary tree.

Example 1:

Input:



Output: 1 2 #1 3 #

Explanation:

All possible paths:

1->2

1->3

Example 2:

Input:



Output: 10 20 40 #10 20 60 #10 30 #

Your Task:

Your task is to complete the function **Paths()** that takes the root node as an argument and return all the possible path. (All the path are printed '#' separated by the driver's code.)

Note: The return type

cpp: vector

java: ArrayList>

python: list of list

Expected Time Complexity: $O(N)$.

Expected Auxiliary Space: $O(H)$.

Note: H is the height of the tree.

Constraints:

$1 \leq N \leq 10^3$.