DATE

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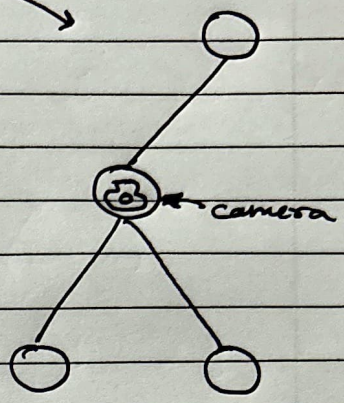
Binary Tree Cameras

Input → root = [0, 0, null, 0, 0]

Output → 1



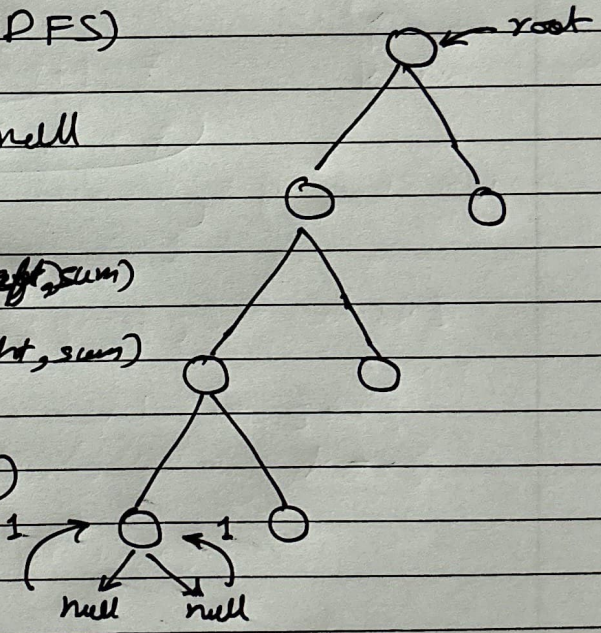
Intuition

Case 1 → return 0 if node is not monitored

Case 2 → return 1 if node is monitored

Case 3 → return 2 if node has camera

Use Depth First Search (DFS)



Base case 1 → If node == null
return 1

int left = dFS(node, left, sum)

int right = dFS(node, right, sum)

→ if (left == 2 || right == 2)

↳ // camera is at lower node
return 1

→ if (left == 0 || right == 0)

↳ // node needs to be monitored → sum++;
return 2; → ~~camera++~~;

→ ~~if (left~~ Other cases
return 0;

Base case 2 Only one node so not monitored
return 1;

classmate

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