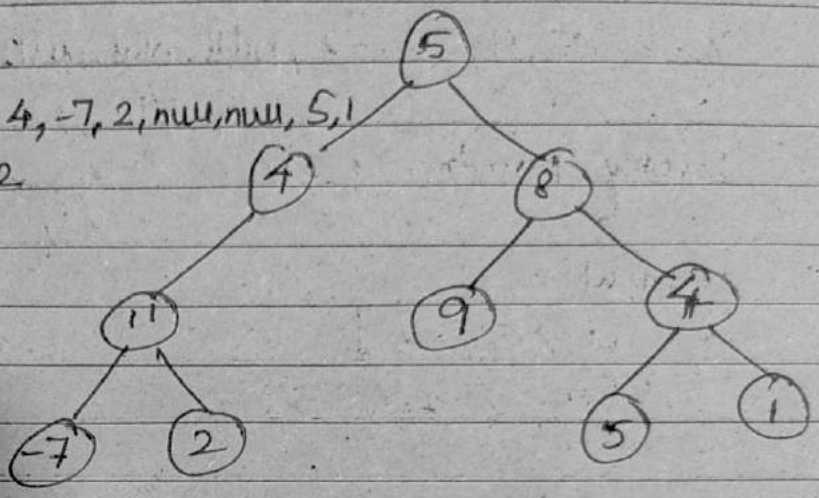
Test Scenarios

(1) Basic Tree structure with multiple valid paths

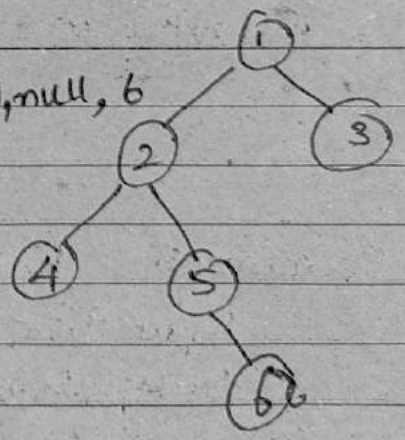
Input ~~test~~ Tree :
5, 4, 8, 11, null, 9, 4, -7, 2, null, null, 5, 1
Lucky Number : 22



Output :
[5, 4, 11, 2]
[5, 8, 9]
[5, 8, 4, 5]

(2) Tree with a single valid path

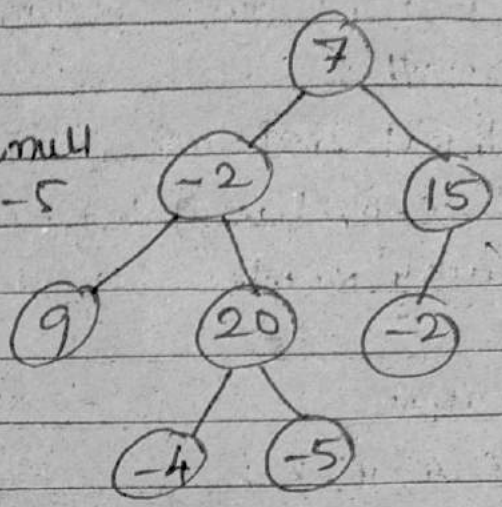
Input Tree :
1, 2, 3, 4, 5, null, null, null, null, null, 6
Lucky Number : 14



Output :
[1, 2, 5, 6]

Scenario 3 : Tree with negative values

Input Tree :
7, -2, 15, 9, 20, -2, null, null, null
-4, -5

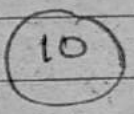


Lucky Number : 20

Output :
[7, 15, -2]
[7, -2, 20, -5]

Scenario 4 : Tree with one Node

Input Tree : 10
Lucky Number : 10



output : 10

Scenario 5 : Empty Tree

Input Tree : [ ]
Lucky Number : 5

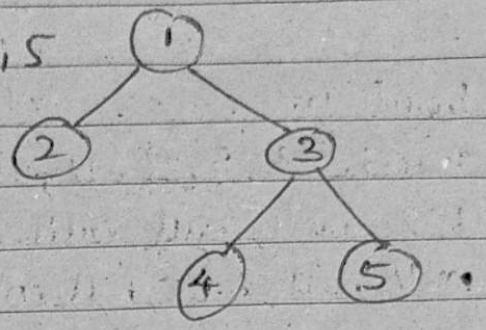
O/P : [ ]

Scenario 6: Lucky Number - Not ~~coherent~~ found

Input Tree: 1, 2, 3, null, null, 4, 5

Lucky Number: 10

output: [ ]



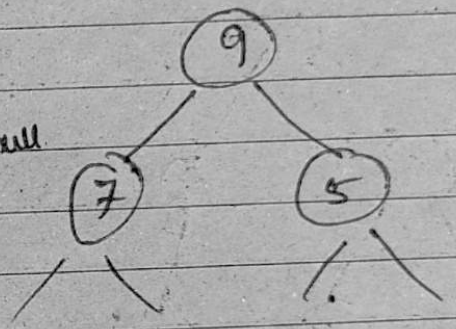
Scenario 7: Tree with all childrens of root node having Null values

Input Tree:

9, 7, 5, null, null, null, null

Lucky Number: 14

output: [9, 5]



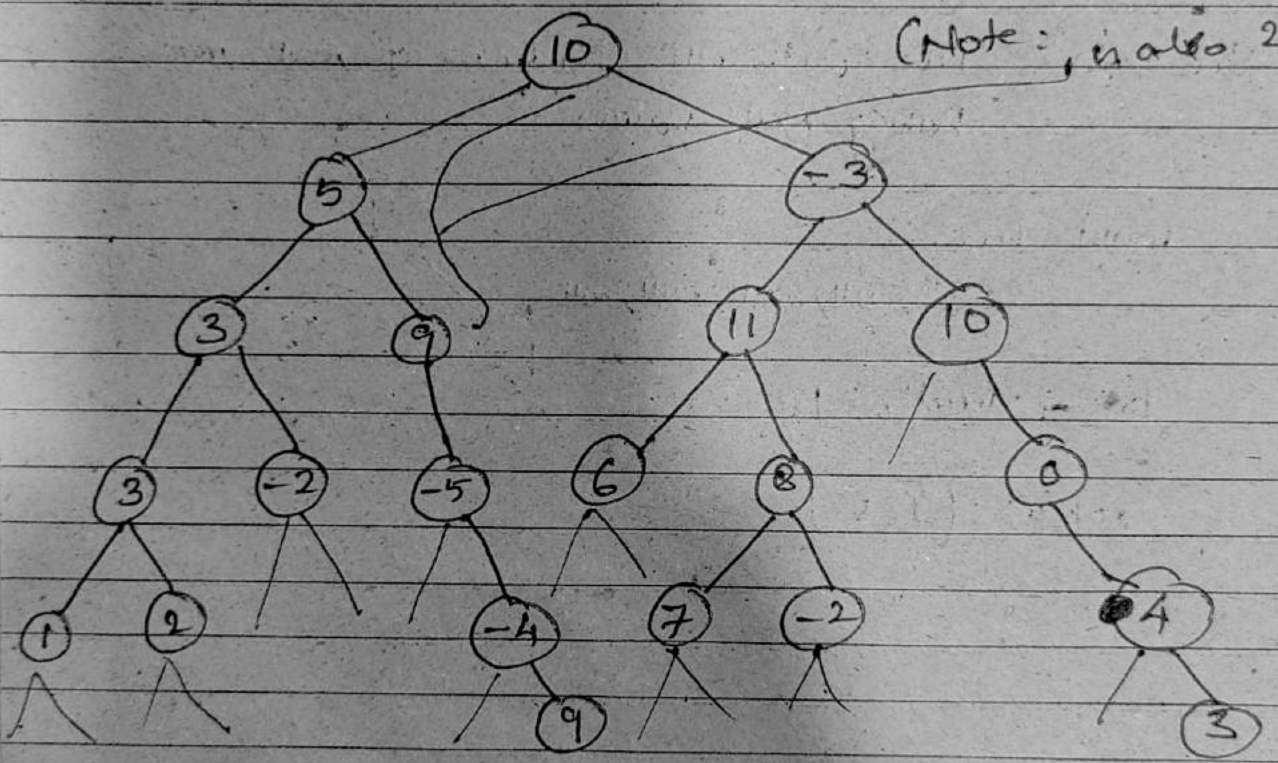
Scenario 8 : Complex Tree with :-

- 0's
- Negatives
- path subtotal is equal to lucky Number
- ~~>=1~~ >=5 paths

Input Tree:

10, 5, -3, 3, 9, 11, 10, 3, -2, null, -5, 6, 8, null, 0,
7, 2, null, null, null, -4, null, 7, -2, null, 4,
null, null, null, null, null, 9, null, null, null, null, 3

Lucky Number : 24



Output : (5 paths)

[10, 5, 3, 3, 1]
[10, 5, 9, -5, -4, 9]
[10, -3, 11, 6]
[10, -3, 11, 8, -2]
[10, -3, 10, 0, 4, 3]

Scenario 9 : Root node as Null

Input tree : null, 2, 3, 4, 5, 6

Lucky Number : 9

output : ? (exception)

Scenario 10 : Lucky Number missing / Null

Input tree : 1, 2, 3, 4, 5, 6, 7, 8

Lucky Number : null

o/p : Exception ?