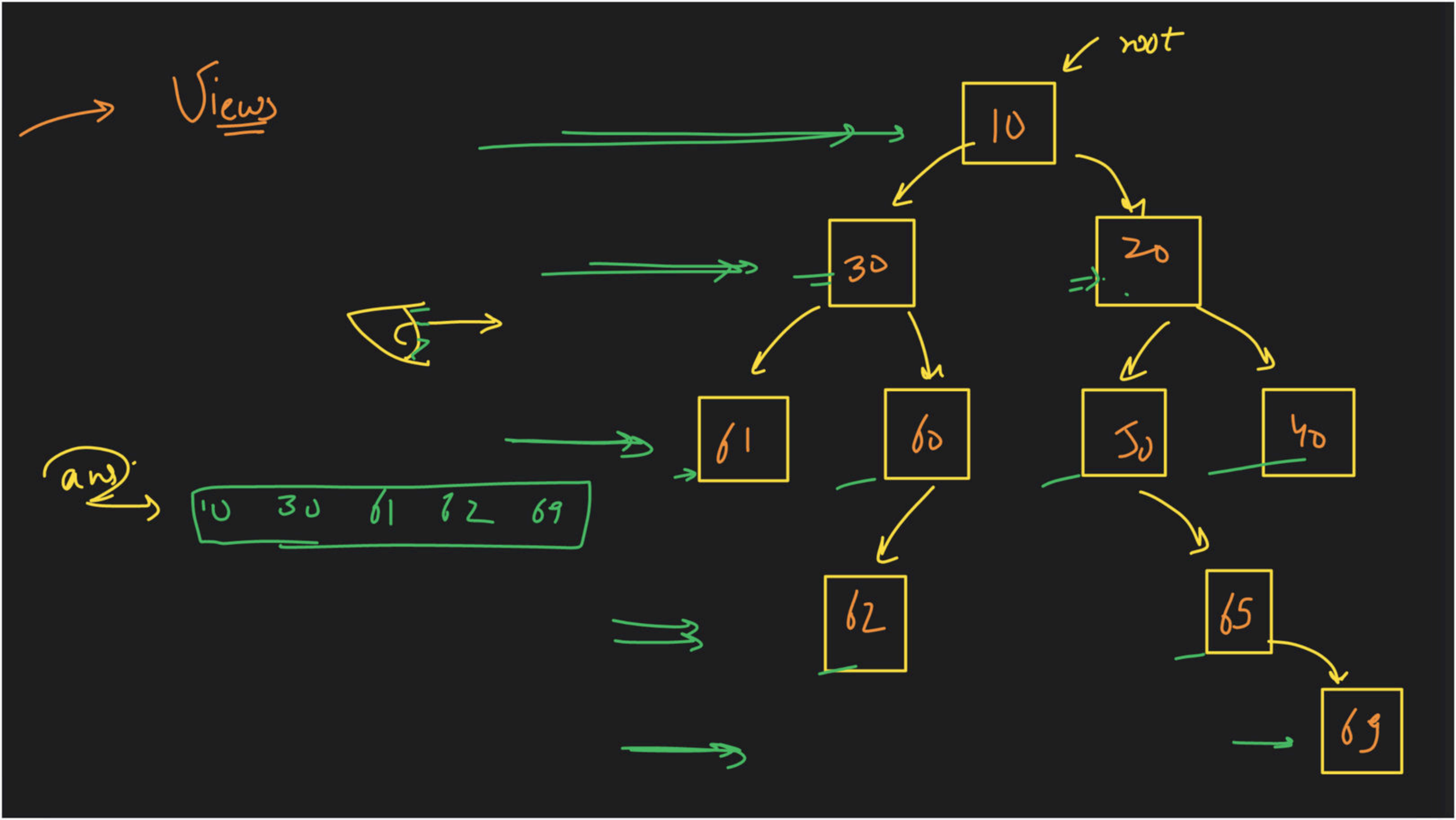
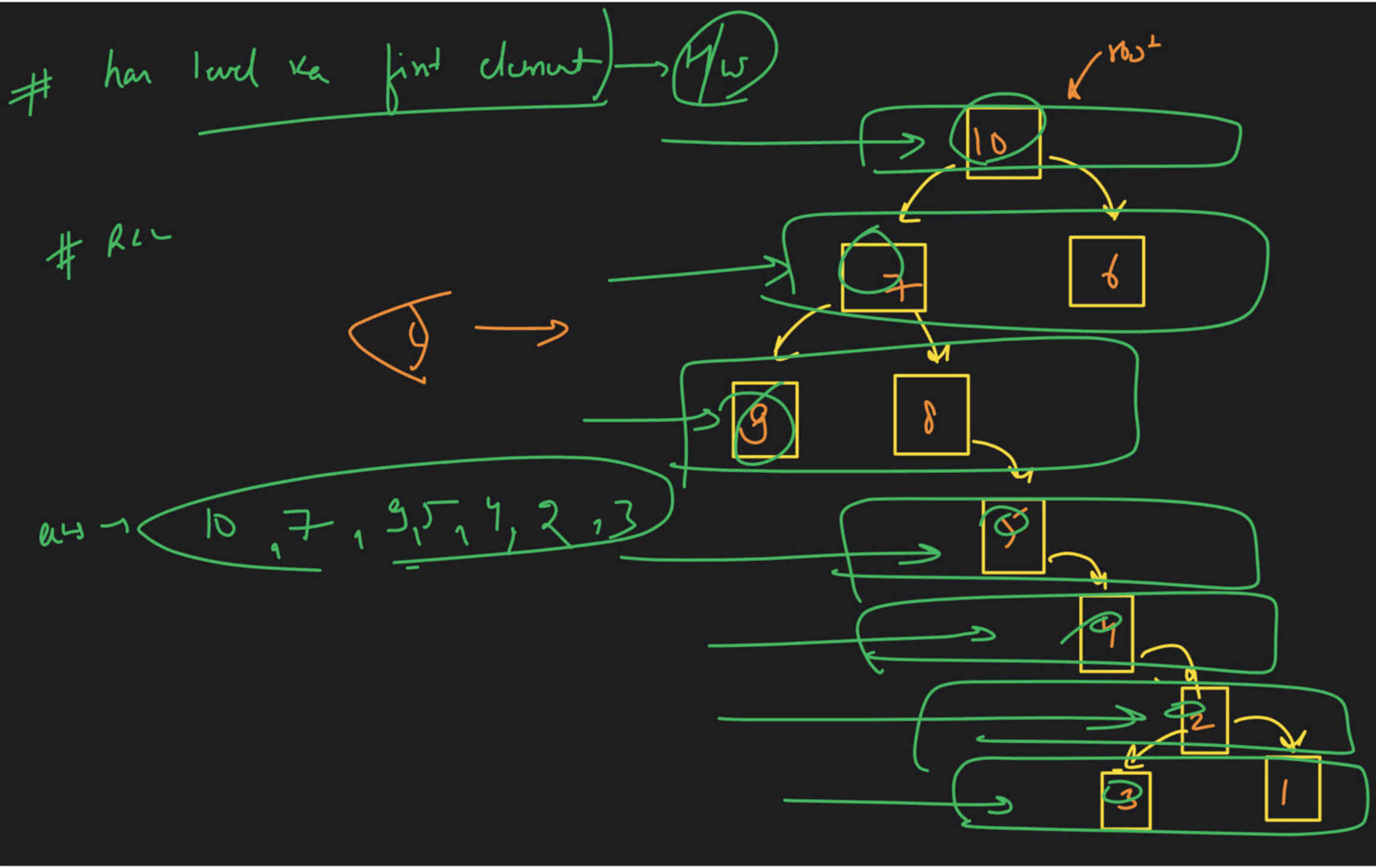
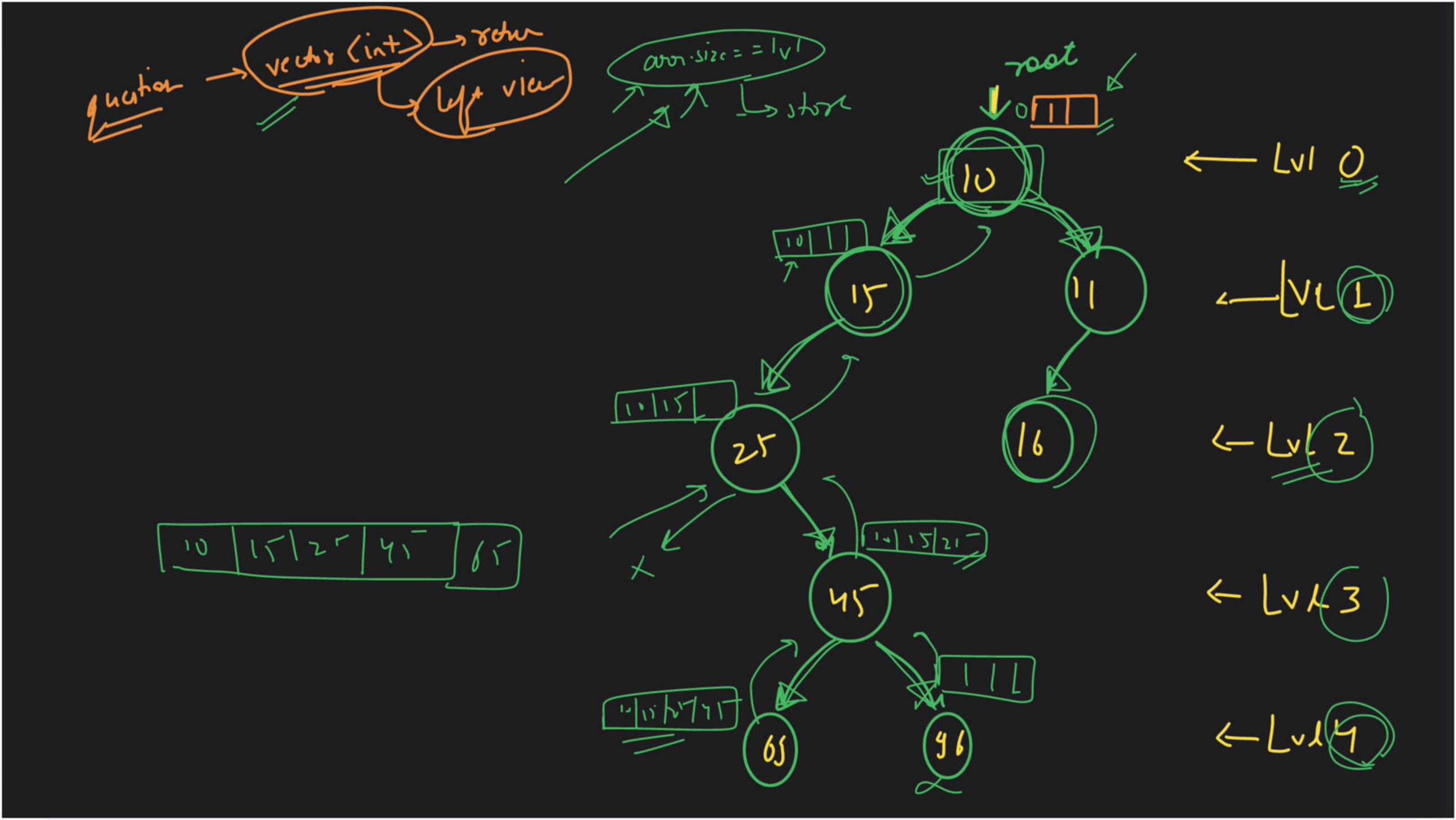
Binary Trees Class - 3

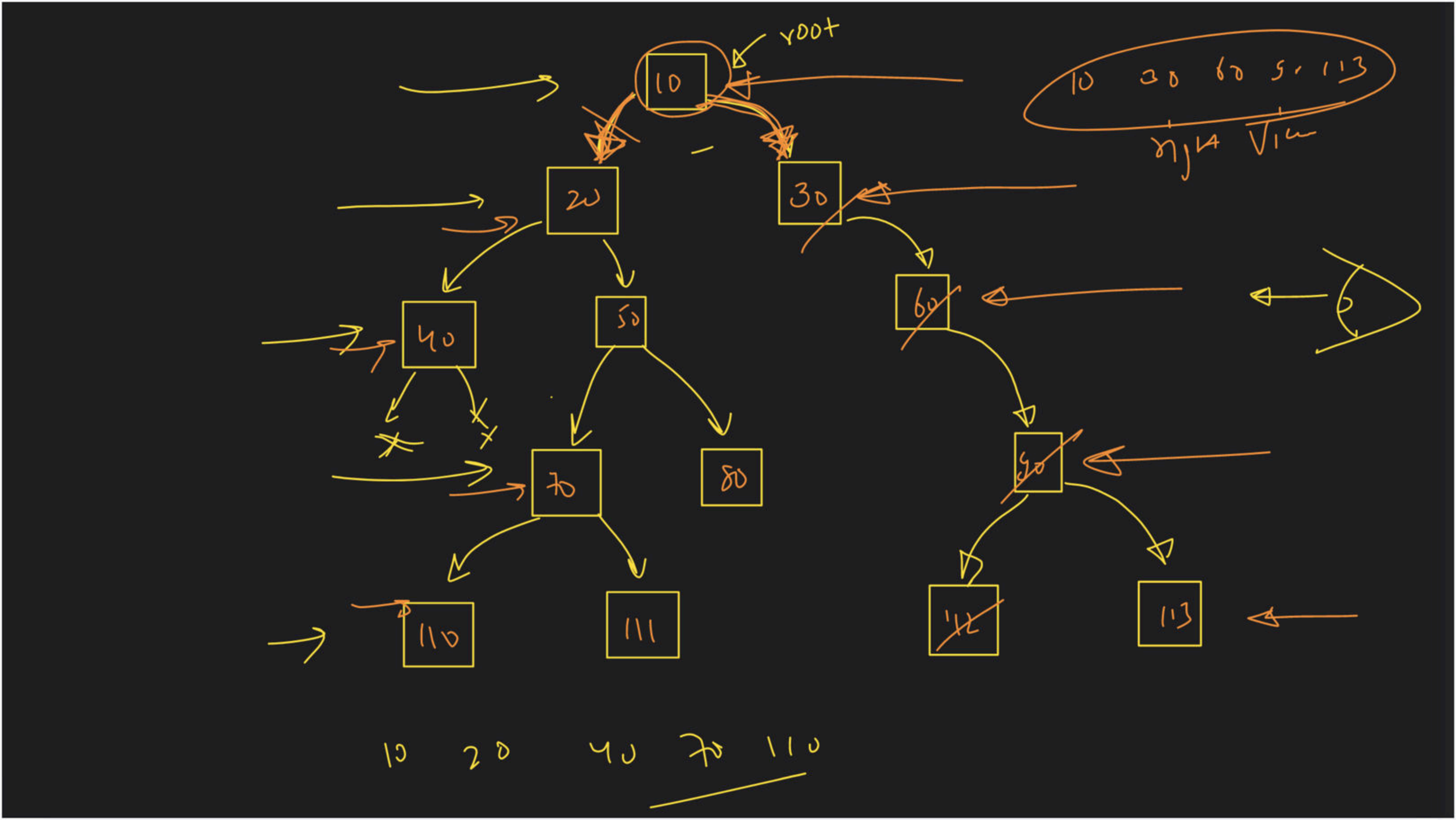
Special class

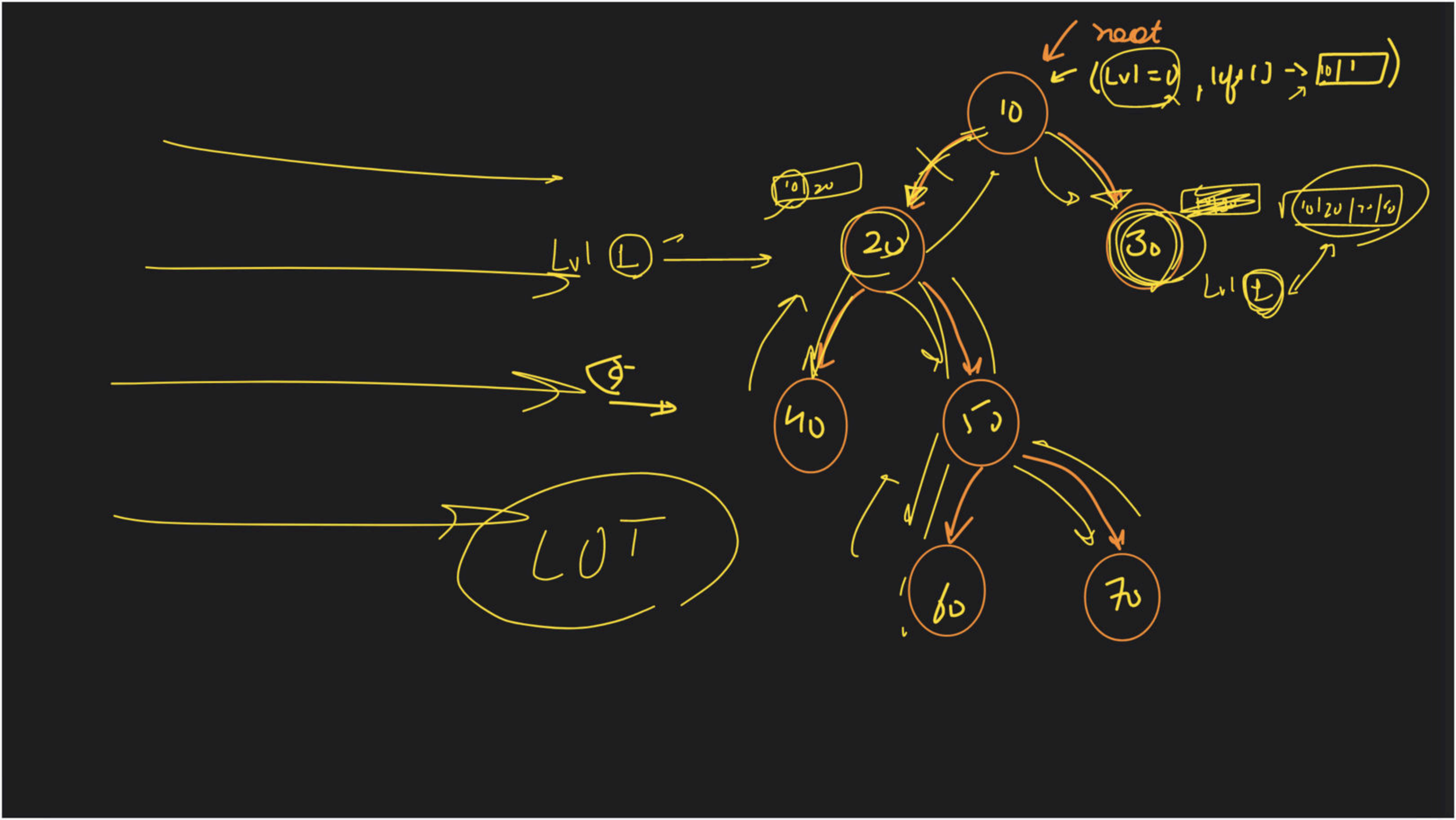
Love Babbar • Dec 4, 2023

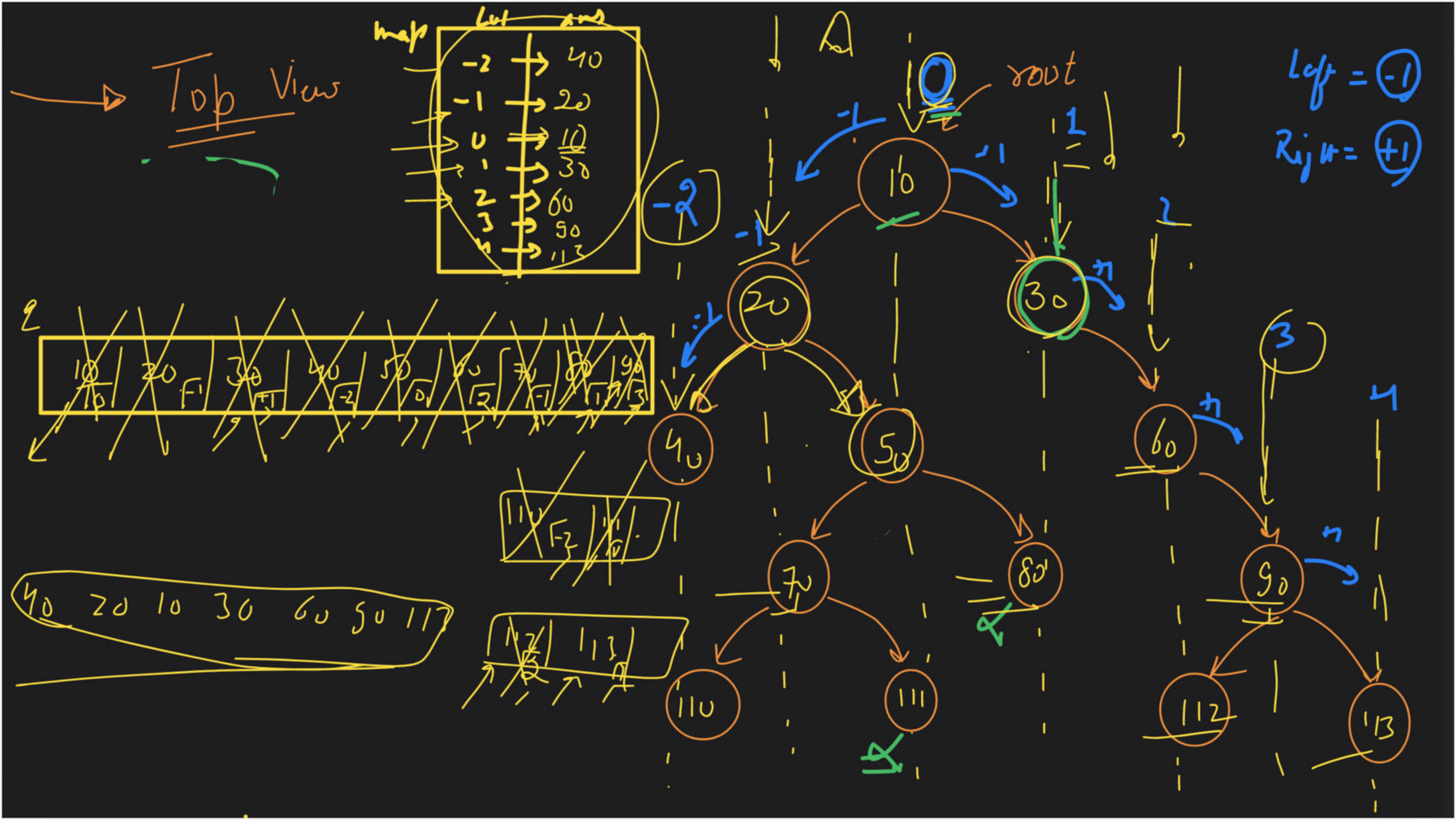

Views
root
10
30
20
61
60
50
40
62
65
69
arr
10
30
61
62
69


har level ka first element → H/W
RLL
10
7
8
9
6
9
4
2
3
1

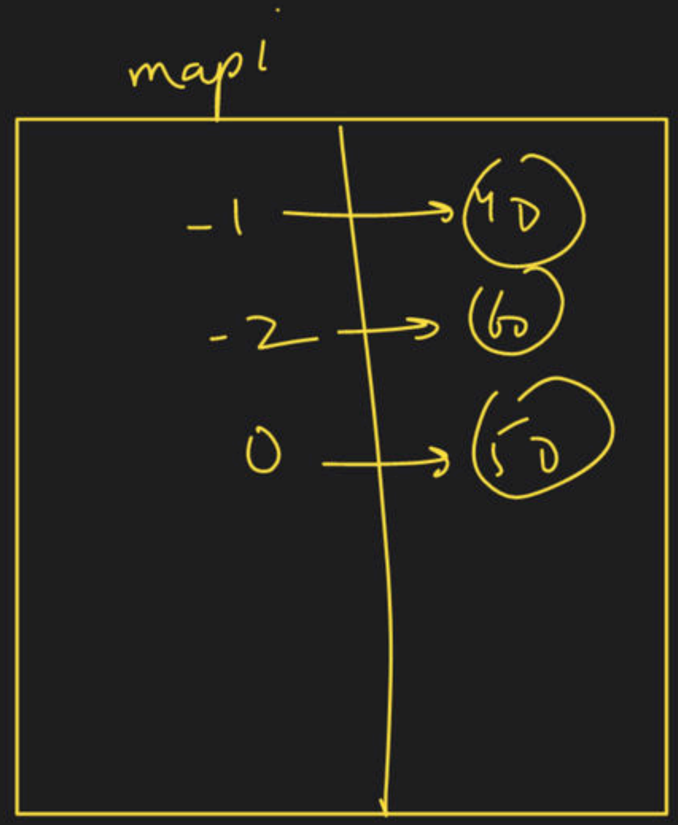

vector<int>
root
left view
arr.size == lvl
store
root
10
15
11
25
16
45
65
96
Lvl 0
Lvl 1
Lvl 2
Lvl 3
Lvl 4


root
10
20
30
40
50
60
70
80
110
111
113
10 20 40 70 110

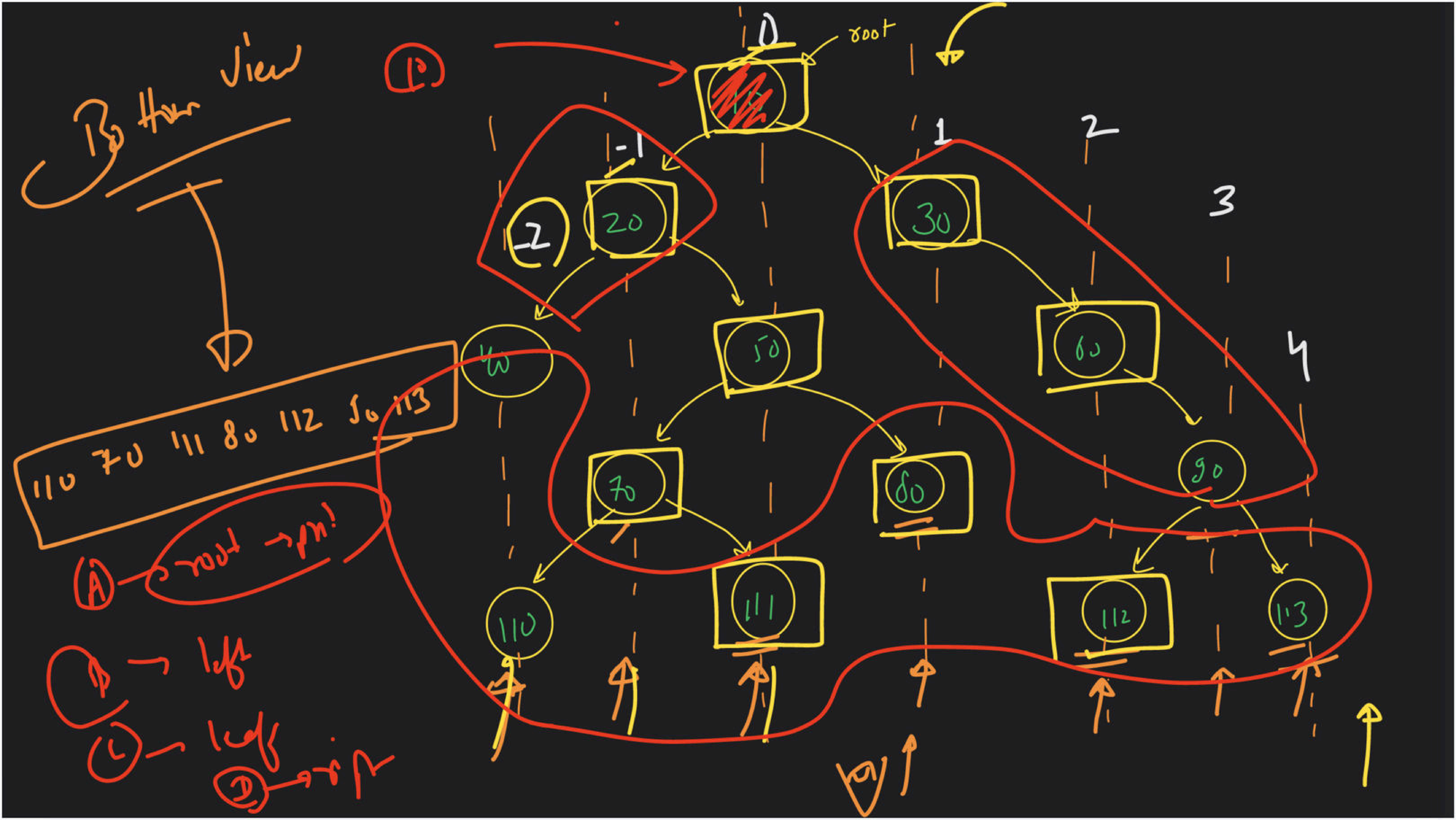

root
Lvl = 0
10
20
30
40
50
60
70
Lvl 1
LOT


Top View
map
-2 → 40
-1 → 20
0 → 10
1 → 30
2 → 60
3 → 90
4 → 113
root
Left = -1
Right = +1
10 20 30 40 50 60 90 110 111 112 113
40 20 10 30 60 50 113

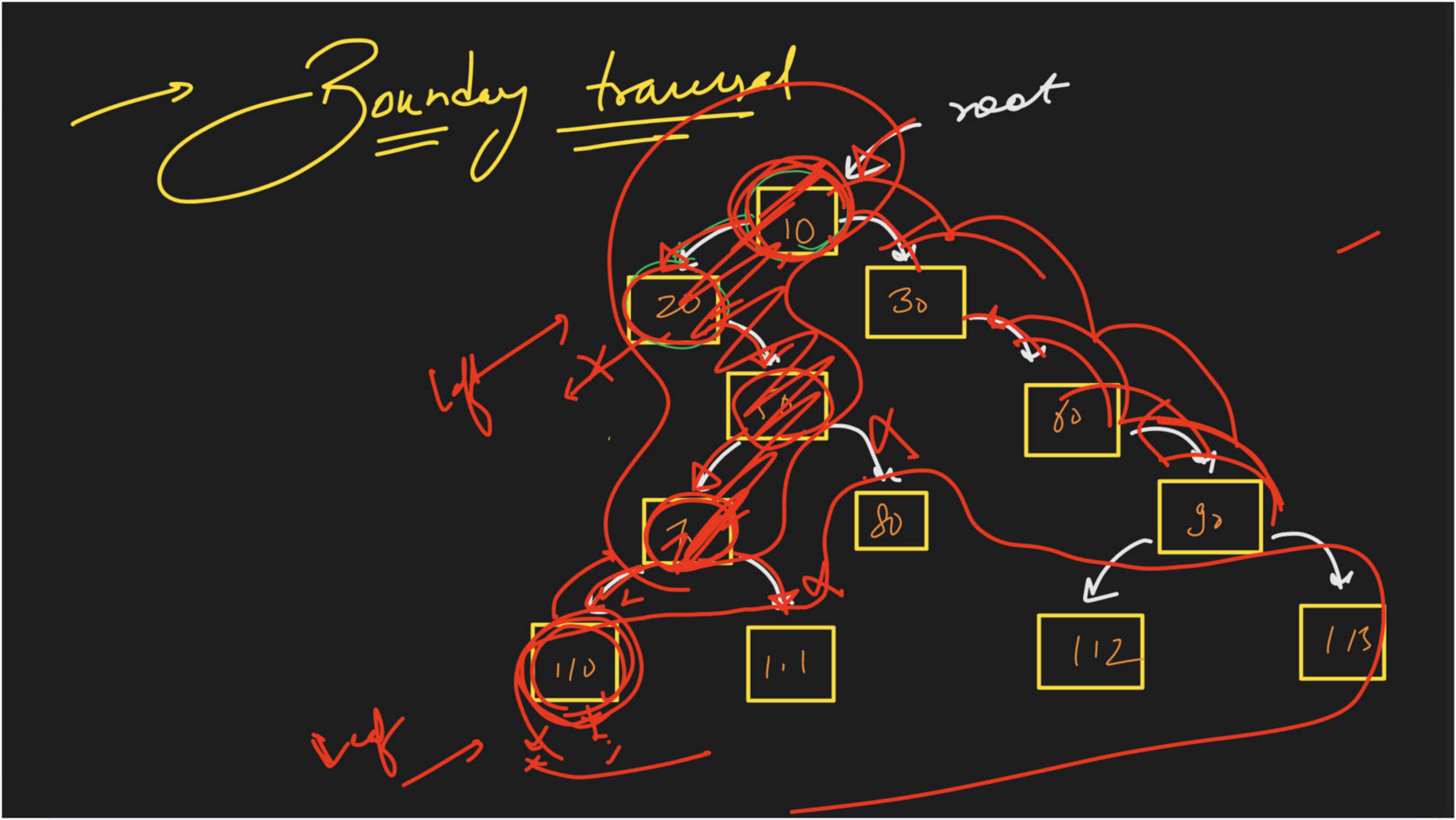
```
for (auto v : mapi)
{
    cout << v.second;
}
```



v → pair → <-1, 40>
pair → <-2, 60>
pair → <0, 50>



Bottom View
root
0
-1
-2
1
2
3
4
20
30
40
50
60
70
80
90
110
111
112
113
110 70 111 80 112 90 113
left


Boundary traversal
root
10
20
30
40
50
60
70
80
90
110
111
112
113