1) You are given an 2D array. You have to find the minimum element in the array.

⇒ Array has special properties

→ It is row wise & column wise sorted by shifted by K_1 & columns are shifted by K_2. K_1, K_2 are not given.

→ Increasing
. but rows are first shifted by

Ex:

1 2 3
4 5 6
7 8 9

⇒ Row-wise & columnwise sorted (i.e) increasingly

↓Row shift by 2

3 2 1
6 5 4
9 8 7

→ Column shift by 1

9 8 7
3 2 ①
6 5 4

→ Answer

⇒ This is the array given

Give optimal solution. [Can be a rectagular array neednot be square]

2) Given

class TreeNode {

    int val;
    int id;
    TreeNode left;
    TreeNode right;

}

Val ⟹ distance from it's to parent to this node

  id ⟹ id of the node
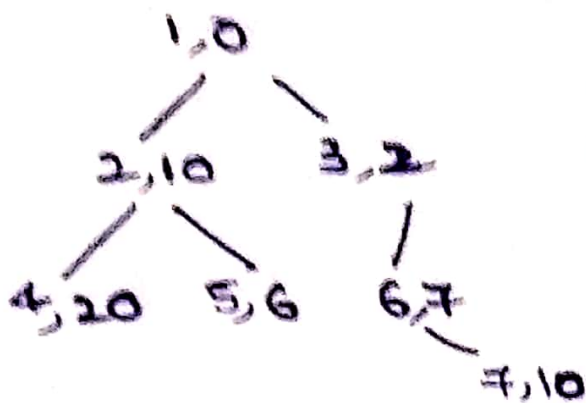
left ⟹ left child

right ⟹ right child

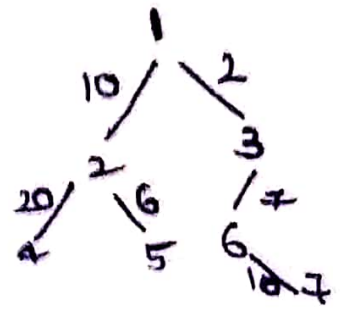You are given a tree consisting of nodes in the form of TreeNodes. You are also given a id. We have to find the ids of nodes which are at a distance of x such that $x \in [a, b]$ (i.e) $a \leq x \leq b$. a, b are also given.

1,0

2,10   3,2   Similarity   10 / 1 \ 2
                         ⟹   / 3
4,20   5,6   6,7   20 / 2 \ 6   / 7
                                    4   5   6
          7,10   10,7
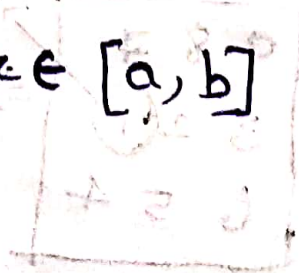
⟹ Given 5, distances lie between [6,20]
        ⇓
    answer ⟹ [2, ● 1, 3]
                ⇓
        order doesnot matter