

## Weekly Contest - 6

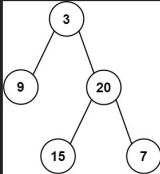
### 404. Sum of Left Leaves

Easy Topics Companies

Given the `root` of a binary tree, return the sum of all left leaves.

A **leaf** is a node with no children. A **left leaf** is a leaf that is the left child of another node.

Example 1:



Input: root = [3,9,20,null,null,15,7]

Output: 24

Explanation: There are two left leaves in the binary tree, with values 9 and 15 respectively.

Example 2:

Input: root = [1]

Output: 0

### 406. Queue Reconstruction by Height

Medium Topics Companies Hint

You are given an array of people, `people`, which are the attributes of some people in a queue (not necessarily in order). Each `people[i] = [hi, ki]` represents the *i*<sup>th</sup> person of height `hi` with exactly `ki` other people in front who have a height greater than or equal to `hi`.

Reconstruct and return the queue that is represented by the input array `people`. The returned queue should be formatted as an array `queue`, where `queue[i] = [hi, ki]` is the attributes of the *i*<sup>th</sup> person in the queue (`queue[0]` is the person at the front of the queue).

Example 1:

Input: people = [[7,0],[4,4],[7,1],[5,0],[6,1],[5,2]]

Output: [[5,0],[7,0],[5,2],[6,1],[4,4],[7,1]]

Explanation:

Person 0 has height 5 with no other people taller or the same height in front.  
Person 1 has height 7 with no other people taller or the same height in front.  
Person 2 has height 5 with two persons taller or the same height in front, which is person 0 and 1.  
Person 3 has height 6 with one person taller or the same height in front, which is person 1.  
Person 4 has height 4 with four people taller or the same height in front, which are people 0, 1, 2, and 3.  
Person 5 has height 7 with one person taller or the same height in front, which is person 1.

Hence `[[5,0],[7,0],[5,2],[6,1],[4,4],[7,1]]` is the reconstructed queue.

Example 2:

Input: people = [[6,0],[5,0],[4,0],[3,2],[2,2],[1,4]]

Output: [[4,0],[5,0],[2,2],[3,2],[1,4],[6,0]]

Solved

Leaf → No Left, No Right



```
public static int sumOfLeftLeaves(TreeNode root) {
    if (root == null) return 0;
    if (root.left == null && root.right == null)
        return 0;
    if (root.left != null && root.left.left == null && root.left.right == null)
        sum += root.left.val;
    sumOfLeftLeaves(root.left);
    sumOfLeftLeaves(root.right);
    return sum;
}
```

```
public static String toHex(int num) {
    if (num == 0) return "0";

    // handle negative number
    long n = num < 0 ? Long.MAX_VALUE - num : num;
    char[] hex = {'0','1','2','3','4','5','6','7','8','9','a','b','c','d','e','f'};
    StringBuilder sb = new StringBuilder();

    while (n != 0) {
        int rem = (int) (n % 16);
        sb.append(hex[rem]);
        n /= 16;
    }
    return sb.reverse().toString();
}
```



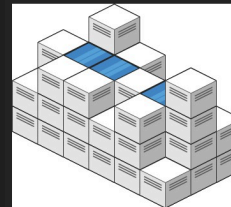
Not Solved

### 407. Trapping Rain Water II

Hard Topics Companies

Given an `m x n` integer matrix `heightMap` representing the height of each unit cell in a 2D elevation map, return the volume of water it can trap after raining.

Example 1:



Input: heightMap = [[1,4,3,1,3,2],[3,2,1,3,2,4],[2,3,3,2,3,1]]

Output: 4

Explanation: After the rain, water is trapped between the blocks. We have two small ponds 1 and 3 units trapped. The total volume of water trapped is 4.