Top View of Binary Tree

Given below is a binary tree. The task is to print the top view of binary tree. Top view of a binary tree is the set of nodes visible when the tree is viewed from the top. For the given below tree

```
1
    /
    2    3
    / \    /
4    5    6    7
```

Top view will be: 4 2 1 3 7

Note: Return nodes from leftmost node to rightmost node.

```
def topView(self,root):
        dic = \{\}
        # variable which is going to store
        # the minimum positional value.
        mi = float('inf')
        ans = []
        if not root:
            return ret
        q = deque([(root, 0)])
        while q:
            cur = q.popleft()
            if cur[1] not in dic:
                dic[cur[1]] = cur[0].data
                mi = min(mi, cur[1])
            if cur[0].left:
                q.append((cur[0].left, cur[1] - 1))
            if cur[0].right:
                q.append((cur[0].right, cur[1] + 1))
        # Starting from the leftmost node and
        # just incrementing it until
        # the rightmost node stored in the dic.
        while mi in dic:
```

```
ans.append(dic[mi])
mi += 1
return ans
```