Solution@22-08-23

515. Find Largest Value in Each Tree Row

```
package LeetCode;
import java.util.ArrayList;
import java.util.LinkedList;
import java.util.List;
import java.util.Queue;
public class LargetsValueInEachTreeRow {
  public List<Integer> largestValues(TreeNode root) {
    List<Integer> result = new ArrayList<>();
    if(root==null) return result;
    Queue<TreeNode> q = new LinkedList<>();
    q.offer(root);
    q.offer(null);
    int max = Integer.MIN_VALUE;
    while(!q.isEmpty()){
      TreeNode tmp = q.poll();
      if(tmp!=null){
         if(max<tmp.val) max = tmp.val;</pre>
         if(tmp.left!=null) q.offer(tmp.left);
         if(tmp.right!=null) q.offer(tmp.right);
      }else{
         result.add(max);
         if(!q.isEmpty()) q.offer(null);
         max=Integer.MIN_VALUE;
      }
    }
```

```
return result;
}
```

451. Sort Characters By Frequency

```
class Solution {
  public String frequencySort(String s) {
    Map<Character, Integer> map = new HashMap<>();
    for (char c: s.toCharArray()) {
      map.put(c, map.getOrDefault(c, 0) + 1);
    }
    List<Character>[] bucket = new List[s.length() + 1];
    for (Character key: map.keySet()) {
      int frequency = map.get(key);
      if (bucket[frequency] == null) {
         bucket[frequency] = new ArrayList<>();
      }
      bucket[frequency].add(key);
    }
    StringBuilder sb = new StringBuilder();
    for (int i = bucket.length - 1; i \ge 0; i--) {
      if(bucket[i] != null) {
         for (char c: bucket[i]) {
           for (int j = 0; j < map.get(c); j++) {
             sb.append(c);
           }
         }
      }
    }
    return sb.toString();
  }
```