Solution@11-08-2023

2570. merge two 2d arrays by summing values

```
class Solution {
 public int[][] mergeArrays(int[][] nums1, int[][] nums2) {
  final int kMax = 1000;
  List<int[]> ans = new ArrayList<>();
  int[] count = new int[kMax + 1];
  addCount(nums1, count);
  addCount(nums2, count);
  for (int i = 1; i \le kMax; ++i)
   if (count[i] > 0)
    ans.add(new int[] {i, count[i]});
  return ans.stream().toArray(int[][] ::new);
 }
 private void addCount(int[][] nums, int[] count) {
  for (int[] idAndVal : nums) {
   final int id = idAndVal[0];
   final int val = idAndVal[1];
   count[id] += val;
  }
 }
}
662. Maximum Width of Binary Tree
class Solution {
  public int widthOfBinaryTree(TreeNode root) {
```

```
if(root == null) return 0;
Deque<TreeNode> dq = new LinkedList<>();
dq.add(root);
int max = 1;
while(!dq.isEmpty()) {
  while(!dq.isEmpty() && dq.getFirst() == null ) dq.removeFirst();
  while(!dq.isEmpty() && dq.getLast() == null ) dq.removeLast();
  max = Math.max(max, dq.size());
  int size = dq.size();
  for(int i =0; i <size; i++) {
    TreeNode temp = dq.poll();
    if(temp == null) {
      dq.add(null);
      dq.add(null);
    } else {
      dq.add(temp.left);
      dq.add(temp.right);
    }
  }
}
return max;
```

}

}