107. Binary Tree Level Order Traversal II

- Just do BFS and return the inverted list at the end.

108. Convert Sorted Array to Binary Search Tree

As already in ascending, root becomes the mid element and the left and right children are recursive acall to the function

168. Excel Sheet Column Title

- Have to use (n-1)//26 to update n, otherwise will get stuck at 26/52 and some other places.
- Still not exactly clear why n-1

283. Move Zeroes

- 1st put all non zero elements in front
- Replace all elements at end with 0'z
- Keep count of how many non zero elements used

409. Longest Palindrome

- Use the fact that a palindrome is only made if:
  - All elements have even occurances
  - Only 1 element has odd number of occurances
- One case to handle is when there are odd numbers with occurance more than 1
- For eg. `abbba` , here answer will be 5, but we do 3 things

```
1. Keep track of number of even occurances : `numEven=2`
2. Keep track of number of odd occurances more than 1:
        `numOdd = 3` subtract 1 to make it even, thus, `numOdd=2`
3. Add 1 for the remaning odd char.
```

448. Find All Numbers Disappeared in an Array

- Still thinking how to do without using n or extra space
-

566. Reshape the Matrix

- Unroll the 2D array into 1 D array
- Use this array and append data from original list using slicing based on the number of columns

```
Input: [1,2,3,4,5,6]

  i=0
  new_list=[]
  while i<len(data_list):
      new_list.append(data_list[i:i+3])
      i+=3

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

- Another method

```
for i in range(0,len(tmp),c):
              op.append(tmp[i:i+c]
```

575. Distribute Candies

- She can either choose `number of candies/2` if all are unique

- Or can choose `number of unique candies` .
- She will choose the minimum of the above 2 cases.

Eg: There are len(set(candies)) unique candies, and the sister picks only len(candies) / 2 of them, so she can't have more than this amount.

For example, if there are 5 unique candies, then if she is picking 4 candies, she will take 4 unique ones. If she is picking 7 candies, then she will only take 5 unique ones.

606. Construct String from Binary Tree

- Do pre orderr traversal (visit,left, right)

637. Average of Levels in Binary Tree

- Use BFs and get the output, then just avg the levels and display

657. Judge Route Circle

Since nothng is moving forward, we just look if number of R==L and U==D