DAY 39

INTERVIEW BIT PROBLEMS:

1. Anti Diagonals

Give a N*N square matrix, return an array of its anti-diagonals. Look at the example for more details.

Example:

```
Input:
123
456
789
Return the following:
[
  [1],
 [2, 4],
 [3, 5, 7],
 [6, 8],
 [9]
]
Input:
12
3 4
Return the following :
[
  [1],
 [2, 3],
 [4]
]
CODE:
PYTHON
class Solution:
    # @param A: list of list of integers
    # @return a list of list of integers
    def diagonal(self, A):
        r=len(A)
```

c=len(A[0])

```
out=[]
         for I in range(1,(r+c)):
             col1=max(0,l-r)
             count=min(l,c-col1,r)
             temp=[]
             for j in range(0,count):
                  temp.append(A[min(r,l)-j-1][col1+j])
             temp.reverse()
             out.append(temp)
         return out
                                      (OR)
class Solution:
    # @param a : list of list of integers
    # @return a list of list of integers
    def diagonal(self, a):
         B = [[] \text{ for } i \text{ in range}(len(a)*2-1)]
         for i in range(len(a)):
             for j in range(len(a)):
                  B[i+j].append(a[i][j])
         return B
```