Ques: Set Matrix Zeros

Approach-2

0	1	2	3	4	5
F	T	T	F	T	F

col

	0
0	F
1	T
2	F
3	T

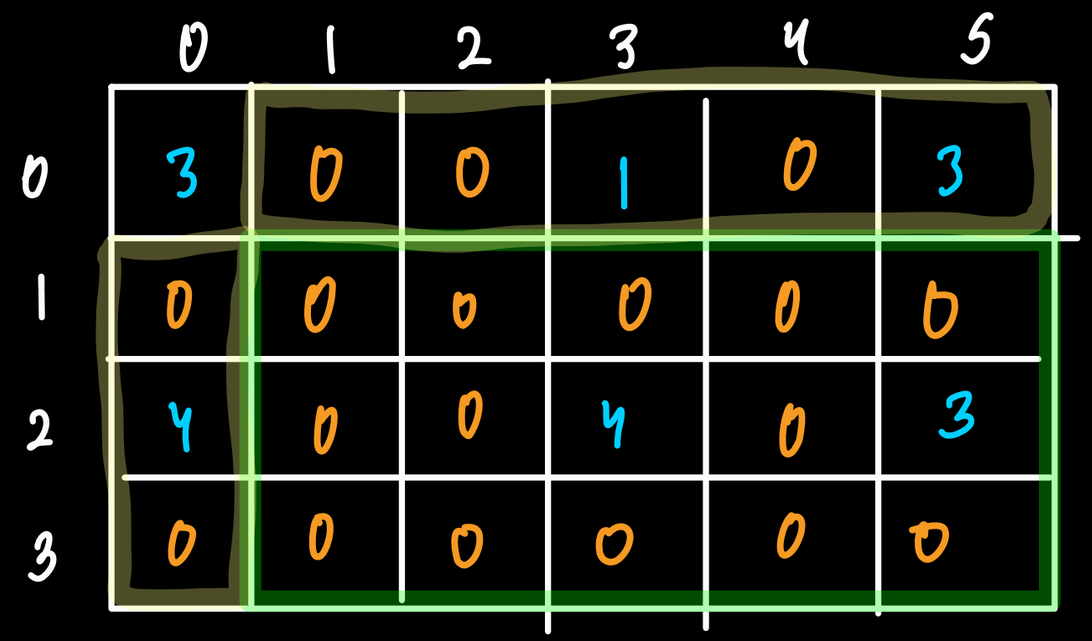
row

	0	1	2	3	4	5
0	3	0	0	1	0	3
1	0	0	0	0	0	0
2	4	0	0	4	0	3
3	0	0	0	0	0	0

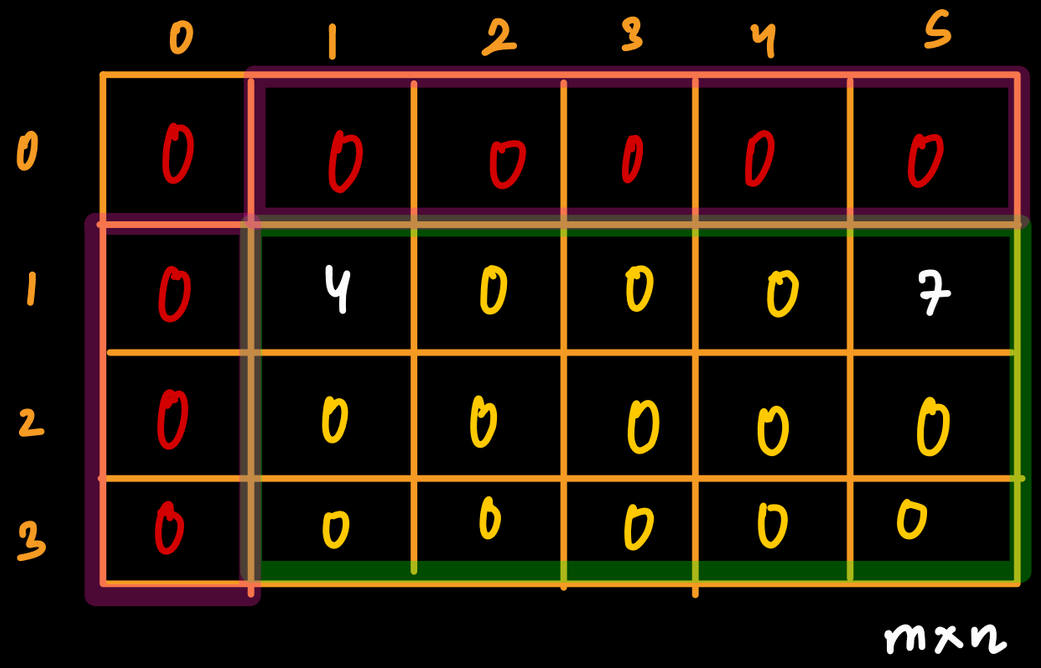
T.C. = O(m*n)

A.S. = O(m+n)

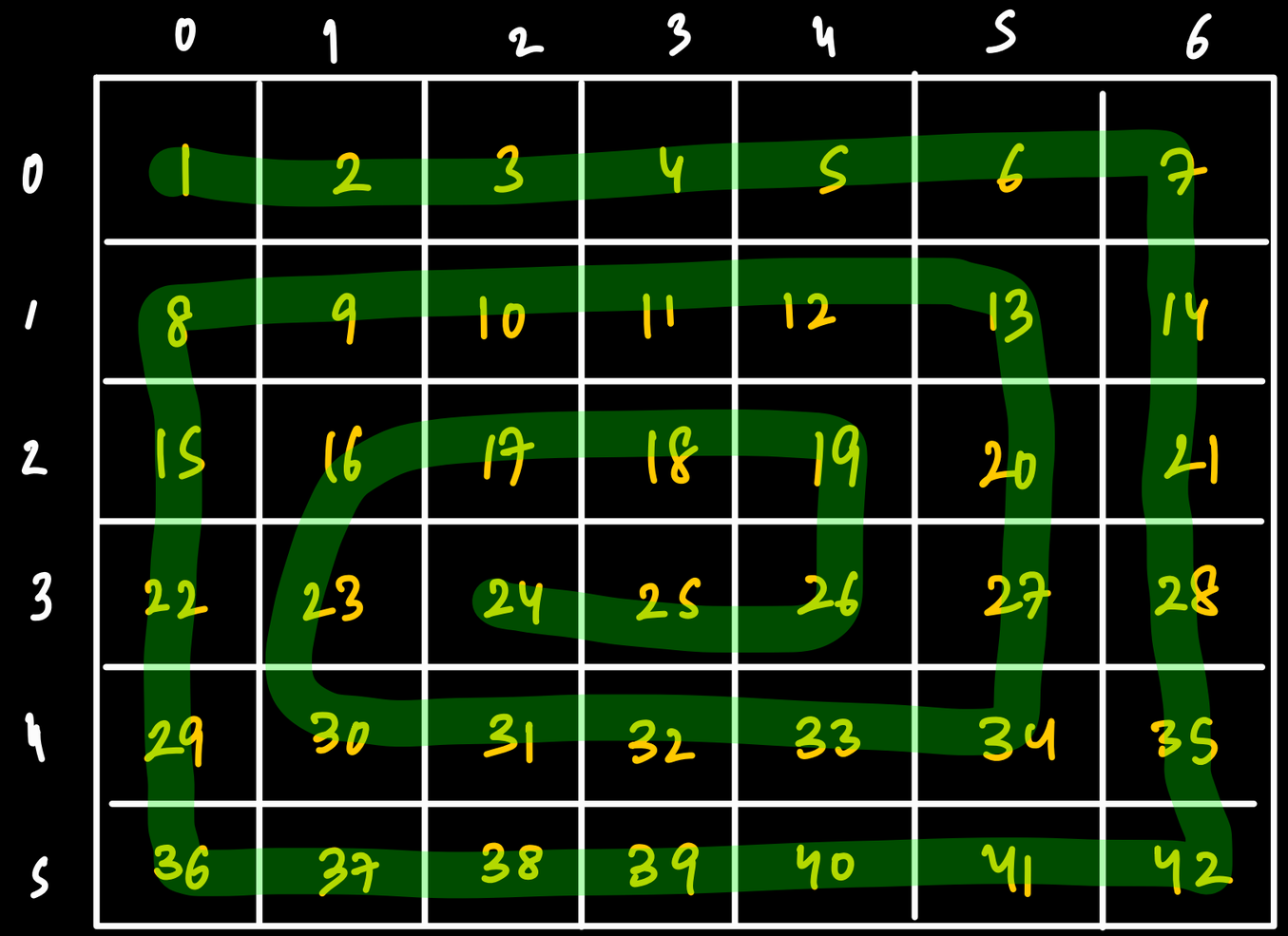
Ques: Set Matrix Zeros



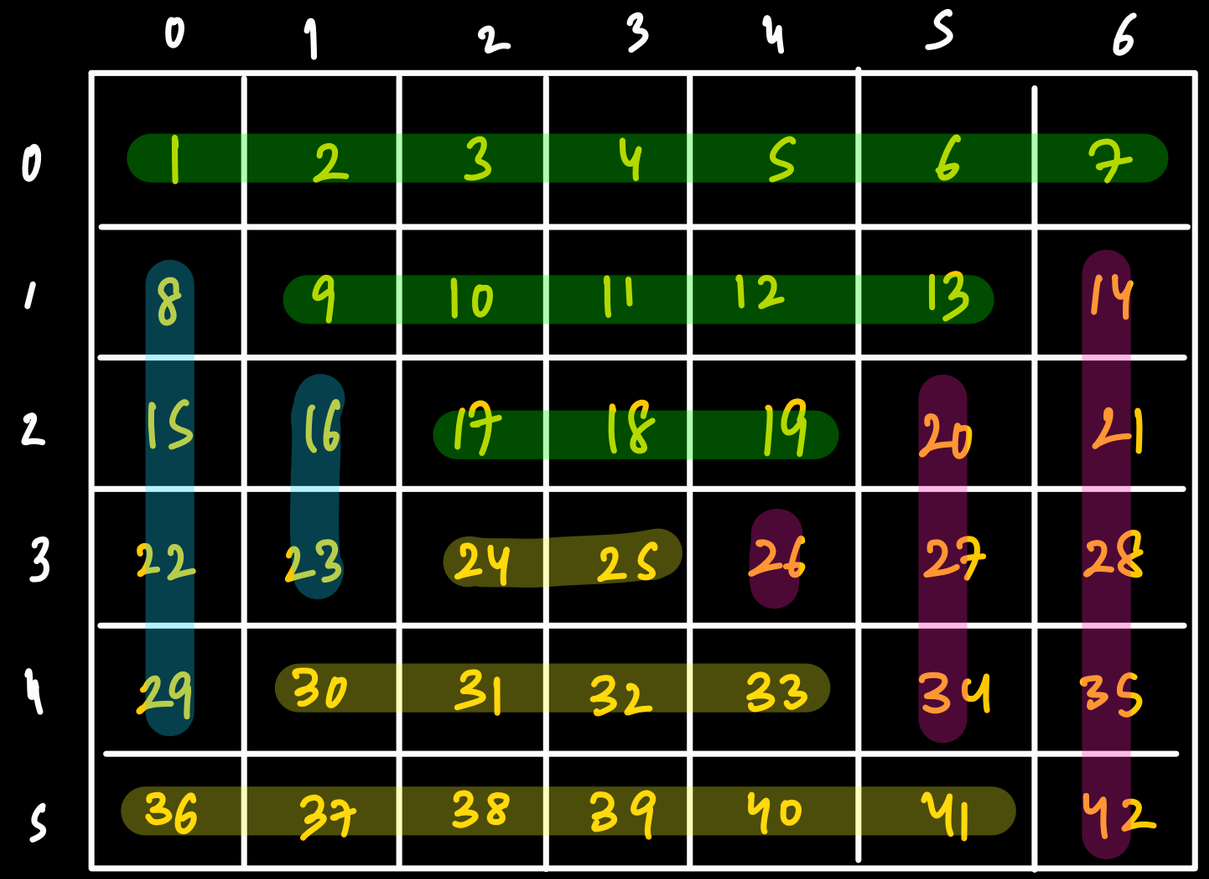
Ques: Set Matrix Zeros



Ques: Spirally Traversing a Matrix



Ques: Spirally Traversing a Matrix



0^{th} row R

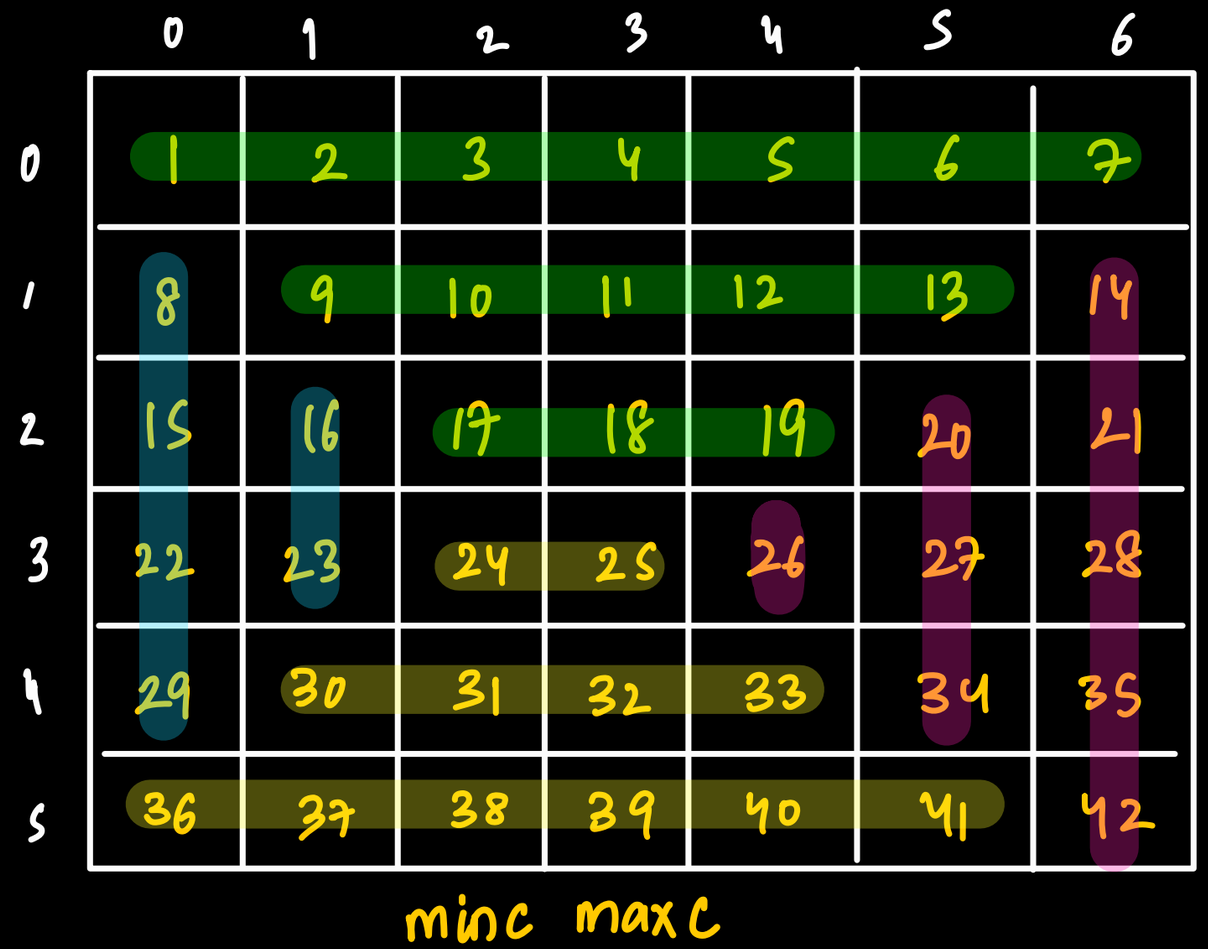
Last Col D

Last Row - Reverse L

0^{th} col - Reverse U

RDLV

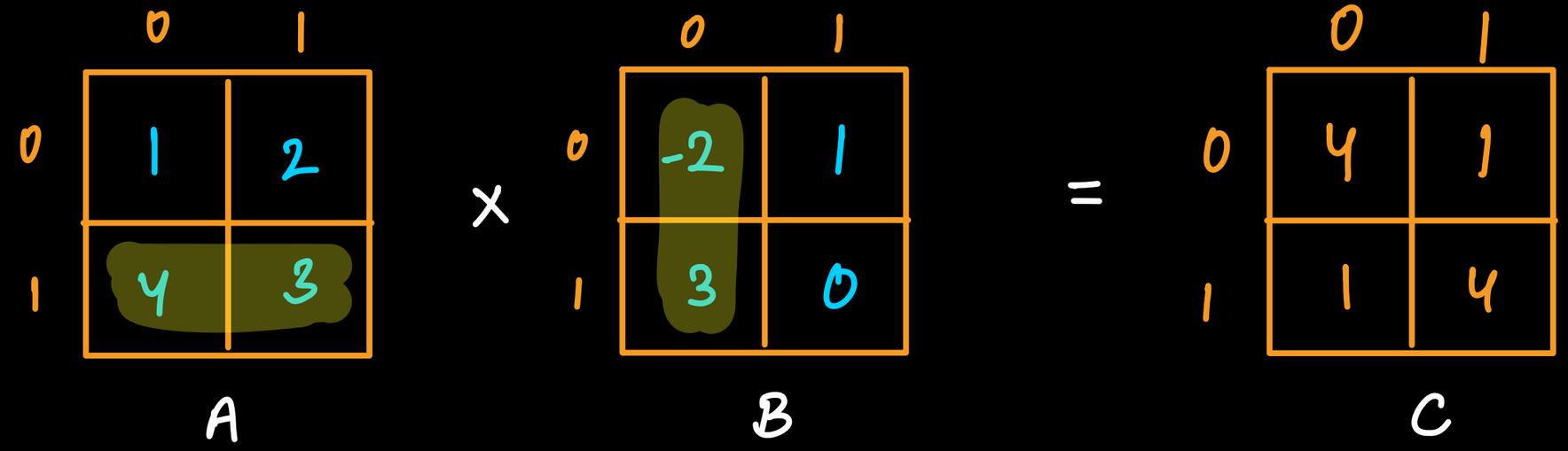
Ques: Spirally Traversing



T.C. = O(m*n) A.S. = O(1)

```
while(  ){
    for(j = minc to maxc){
    |   sout(arr[minr][j];
    }
    minr++
    for(i=minr to maxr){
    |   sout(arr[i][maxc]);
    }
    maxc--
    for(j = maxc; j>=minc; j--){
    |   sout(arr[maxr][j]);
    }
    maxr--
    for(i=maxr to minr){
        sout(arr[i][minc]);
    }
    minc++
}
```

Ques: Multiply Matrices



$C[i][j]$ = A ki i^{th} row x B ka j^{th} col

$$= \sum_{k=0}^{n-1} A[i][k] * B[k][j]$$