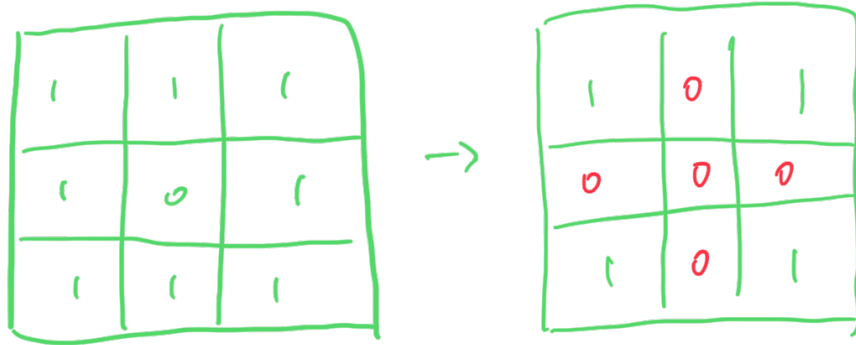


73. Set Matrix Zeroes

- $m \times n$ integer matrix

If an element is 0, set entire row and col as 0.

Example:



Analyse:

assume $m[i][j] = 0$

we need to set:

$$m[\text{row-loop}][j] = 0$$

$$m[i][\text{col-loop}] = 0$$

Brute-force:

loop the whole matrix, whenever

we meet 0, we do another
2 for-loops.

Pseudo-code

$m = \text{matrix.size}$, $n = \text{matrix}[0].\text{size}$

for i in m :

for j in n :

if $\text{matrix}[i][j] == 0$:

same handle for q in m :
 $\text{matrix}[q][j] = m$

for b in n :

~~$\text{matrix}[i][b] = n$~~

if $\text{matrix}[i][b] =$
continue

else:

if $m[i][j] = \max$

$m[i][j] = 0$

0	0	0	5
1	2	1	4

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

~