Modify The Matrix

$$-3.000 = 3$$
 $-3.001 = 3$

O

O

O

O

O

O

O

O

O

O

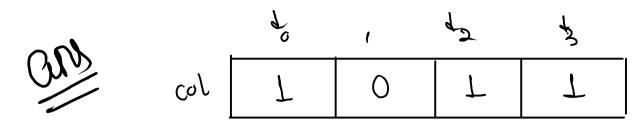
O

Vol is 1 at $(0,0)$, $(1,2)(6,3)$

	o	1	2	3
ans.	1	1	1	1
1	Τ	L	1	1
a	Ţ	0	1	1

operations =
$$N \times M \times (N + M)$$

T. $C = O(M \times N \times (N + M))$
= $O(MN^2 + M^2N)$
S. $C = O(N \times M)$



	now		G	1	J	8
10	1	o Orac	1	0	O	1
1	7	ı	0	0	1	0
æ	9	Ą	0	0	Ŏ	O

$$Mow = 3$$
 $Cd = 4$

$$n c$$
 $1 \rightarrow (0,6)$
 $(0,3)$
 $(1,2)$
 $S \cdot C = O(N+M)$

$$S_{\circ}C = O(N+M)$$

```
public static void modifyMatrix(int[][] arr, int m, int n) {
int[] row = new int[m];
int[] col = new int[n];
  for (int i = 0; i < m; i++) {
                                    T. (=0(N+M)
S. (=0(N+M)
       for (int j = 0; j < n; j++) {
                                                                    Bos
            col[j] = 1;
   for (int i = 0; i < m; i++) {
     for (int j = 0; j < n; j++) {
        → if (row[i] == 1 || col[j] == 1) {
                                                                           m=3
              arr[i][i] = 1;
          } else {
              arr[i][j] = 0;
                                                            €=0,0, True,
   for (int i = 0; i < m; i++) {
                                                                                       8,1 False
       for (int j = 0; j < n; j++) {
                                                                 0,3, True
           System.out.print(arr[i][j] + " ");
       System.out.println();
                                                                           True
```

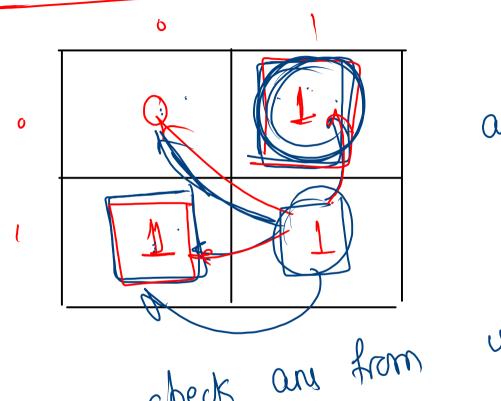
Number of square matrices with all 1s

$$Sq = 10 + 4 + 1$$
= 15

meaning of each idx -> containing no. of square matrices we can make ending here

	O	1	2	3
Ŏ	Ó		1	(
(1	(21	9_
a	0	ł	2	3

how to calculate and for each ide



ans
$$[i][j] = \text{ans}[i-1][j], \text{ans}[i][j-1],$$
ans $[i][j] = \text{ans}[i-1][j]$

check an from up ida and ida left ida i diagonal ida

```
// main logic
public static int countOfSquareMatrices(int[][] arr, int m, int n) {
    // each index store
    // no. of square matrices with all 1 , ending here
   for (int i = 1; i < m; i++) {</pre>
       for (int j = 1; j < n; j++) {
        → if ( arr[i][j] == 1 ) {
               arr[i][j] = Math.min(arr[i - 1][j - 1], Math.min(arr[i - 1][j], arr[i][j - 1])) + 1;
   int sum = 0;
    for (int i = 0; i < m; i++) {
       for (int j = 0; j < n; j++) {
           sum += arr[i][j];
    return sum;
                                        O
                                                                                          T.C = O(n*m)

S.C = O(1)
                                 Ø
                                                         9
                                a
                                        0
```