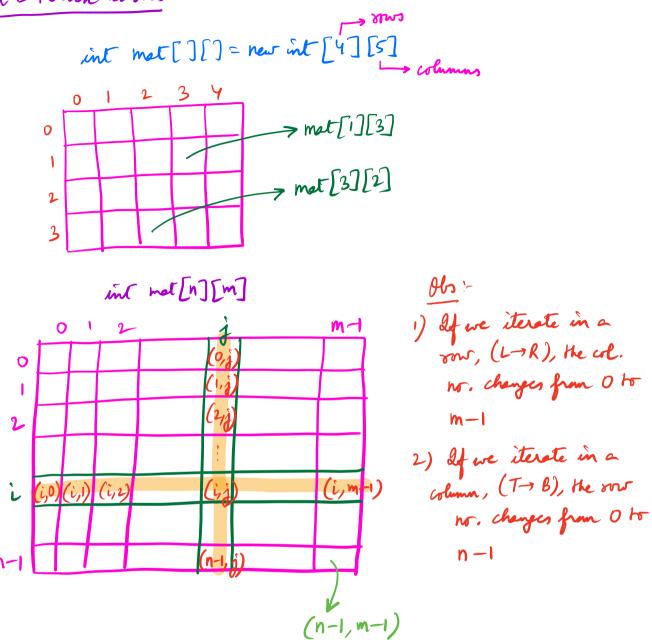
There are no big furblems, there are just a lot of little problems.

- Henry Ford



B1) fiven mat[n][m], print row wise sum

$$T.C. \rightarrow O(n*m)$$

$$S.C. \rightarrow O(1)$$

We con't do better,

```
void vow_sum (int met[][]){

int n = met.length;

int m = met[0].length;

/visit every vow

for(i=0; i< n; i++) {

int sum = 0;

/find sum for it sow

for(j=0; j< m; j++) {

sum+=met[i][j];

}

hint(sum)
}
```

B2) fiven mat [n] [m], print column wise sum

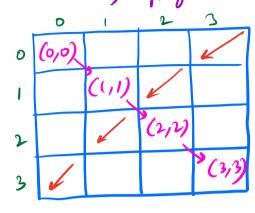
| | 0 | 1 | 2 | 3 |
|---|----|----|---|----|
| D | 4 | 3 | l | 2 |
| 1 | 8 | 7 | 2 | 9 |
| 2 | 2 | 6 | 5 | 14 |
| | 14 | 16 | 8 | 25 |

Hlu Todo

(33) lynn square motion mat[n][n], frint two diagonols

1) Top left to Bottom right

2) Top right to Bottom Left



By) given a met [n] [m], print all diegonds going from R- L, starting from Oth sow, Oth column. i=?,}=? while (i<n bk j>=0) { print (mot [i][j]); starting points (1,4) (0,0) (2/4) (0,1) (3,4) (0,2) (0,j) for every (0,3) (0,4) j ∈ [0, m-1] (i,m-1) for every ie[1, n-i]

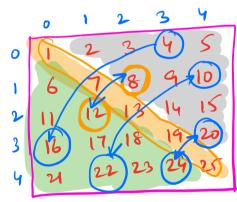
- -> First frint all diegonals starting at 0th nour (0,0) → (0,1) → (0,2) → ... -> (0,m-1)
- -> Print all the diegnals sterting at (m-1)th column.

```
void frintAll Diagonals (int mat [7, n, m) {

\begin{cases}
for(int c=0; c < m; c+t) & \text{int } i=0, j=c; \\
int i=0, j=c; \\
\text{while}(i < n > k \neq j=0) & \text{hint}(mot[i][j]); \\
i+t; & j=-;
\end{cases}

\begin{cases}
for(int v=1; v< n; v+t) & \text{int } i=r, j=m-l; \\
int i=r, j=m-l; \\
\text{while } (i< n \ge kj>=0) & \text{for } (i=1) & \text{for } (i=1
                                                                                                                                                                                                                                                                                                                                                                                                                                               0(1)5.6,
                                                                                                                                                                                                                                                                   [Brech till 11:00 PM]
```

(35) given a metrin met[n][n], convert it to its transpose. [O(1) space



Swep (i,j) with (j,i)

$$fn(\bar{z}=0; i < n; i++) {\{ \}}$$

$$fn(\bar{z}=0; j < i; j++) {\{ \}}$$

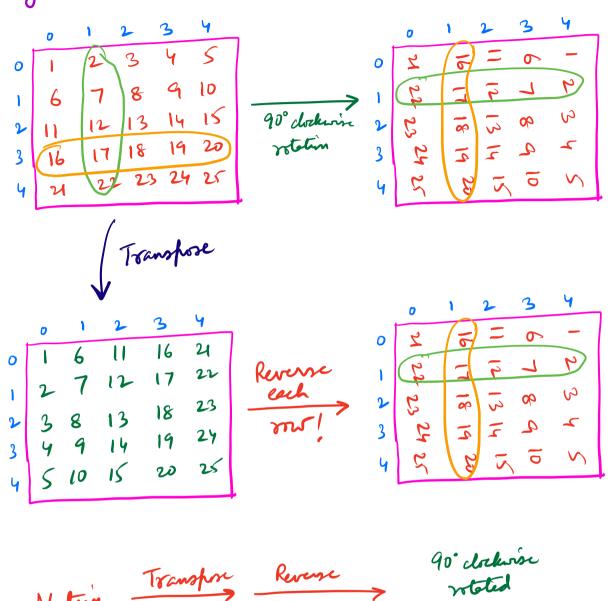
$$int tmp = mat[i][j];$$

$$mat[i][j] = mat[j][i];$$

$$mat[j][i] = tmp;$$
}

| | 0 | l | V |
|---|-----|----|----|
| 0 | | XX | 37 |
| 1 | 24 | 5 | 6 |
| 2 | 1/3 | 8 | 9 |
| | | | |

Q6) firen a matrix met [n][n], rotate it 90° clockwise.



Todo: Code

2 7 1 33 2 1 1 1 2. 5 min ma