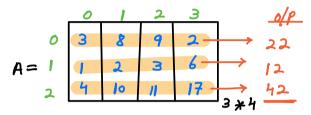
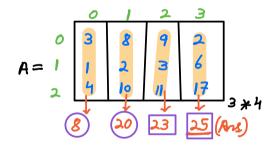


A - Print row wise seen.



for 
$$i \rightarrow 0$$
 to  $(N-1)$   
 $sun = 0$   
for  $j \rightarrow 0$  to  $(M-1)$   
 $sun + = Ali I j I I$   
print (sum)  $TC = O(N \times M)$   
 $SC = O(1)$ 

0 - Fird mon column sum.

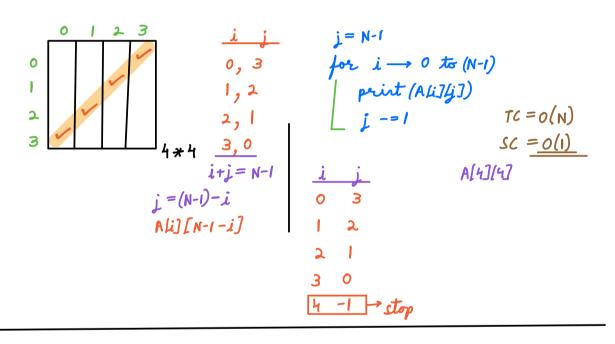


ans = INT\_MIN  
for 
$$j \rightarrow 0$$
 to  $(M-1)$   
seem = 0  
for  $i \rightarrow 0$  to  $(N-1)$ ?  
L sum += Ali? Lj??  
ans = max(ans, seen)

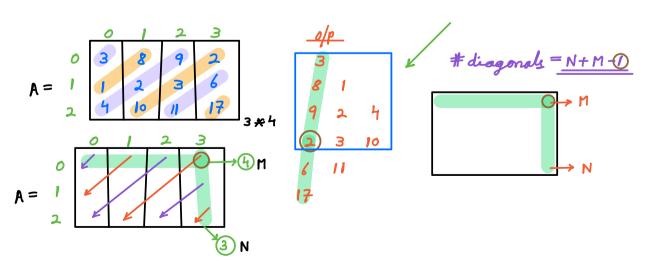
 $0 \rightarrow \text{ liver a square matrix } A[N][N].$ Print main diagonal from  $\rightarrow$  top left to bottom right

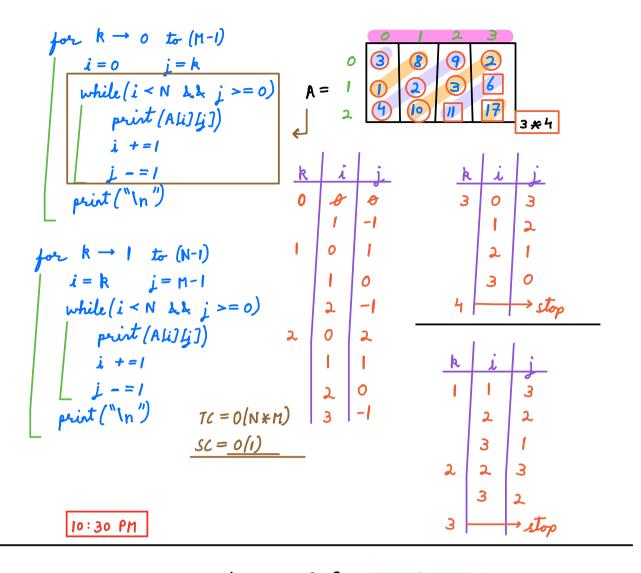
for 
$$i \rightarrow 0$$
 to  $(N-1)$ 
 $0,0$ 
 $1,1$ 
 $2,2$ 
 $3$ 
 $4*4$ 
 $3,3$ 
 $(i==i)$ 

 $A \rightarrow \text{ liver a square matrix } A[N][N].$ Print main diagonal from  $\rightarrow$  top right to bottom left

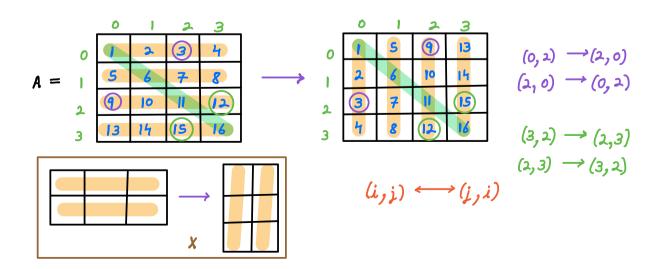


a → Print all diagonals from right to left.





A→ Civer a <u>square matrix</u> A[N][N]. Update the matrix to ite <u>transpose</u> without extra space.



$$i = 2$$

$$j = 3$$

$$(2,3) \longleftrightarrow (3,2) \text{ is } j \qquad j \longrightarrow (i+1) \text{ to } (N-1)$$

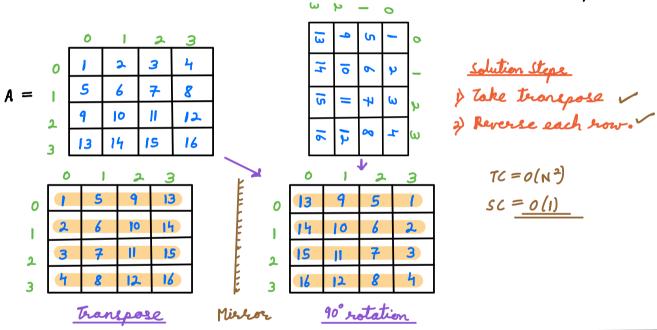
$$t = A \text{ is } j \text{ swap } (A \text{ is } j)$$

$$j = 2$$

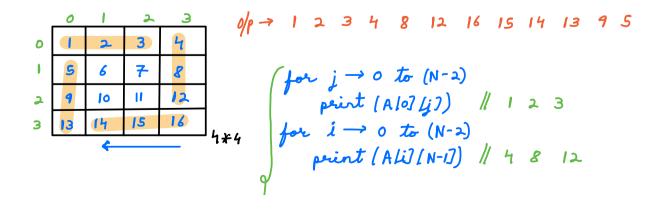
$$TC = O(N^2)$$

$$SC = O(1)$$

 $\theta \rightarrow \text{ Given a } \underline{\text{square matrix}} \text{ A[N][N]. Update the } \underline{\text{matrix}} \text{ to its } \underline{90^{\circ}} \underline{\text{clockwise rotation}} \text{ without extra space.}$ 



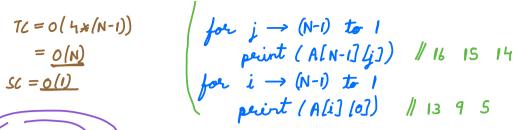
a→ liver a square matrix. Print boundary elements in clockwise order starting from (0,0).



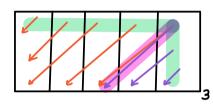
$$TC = O(4 * (N-1))$$

$$= O(N)$$

$$SC = O(1)$$







$$N = 3$$

$$M = 5$$