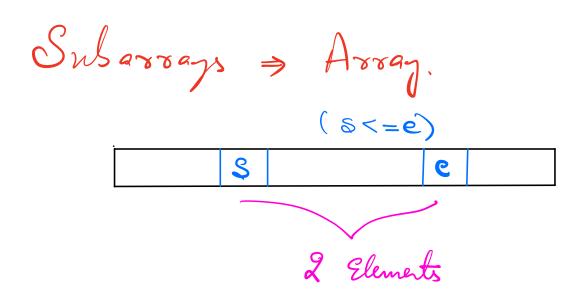
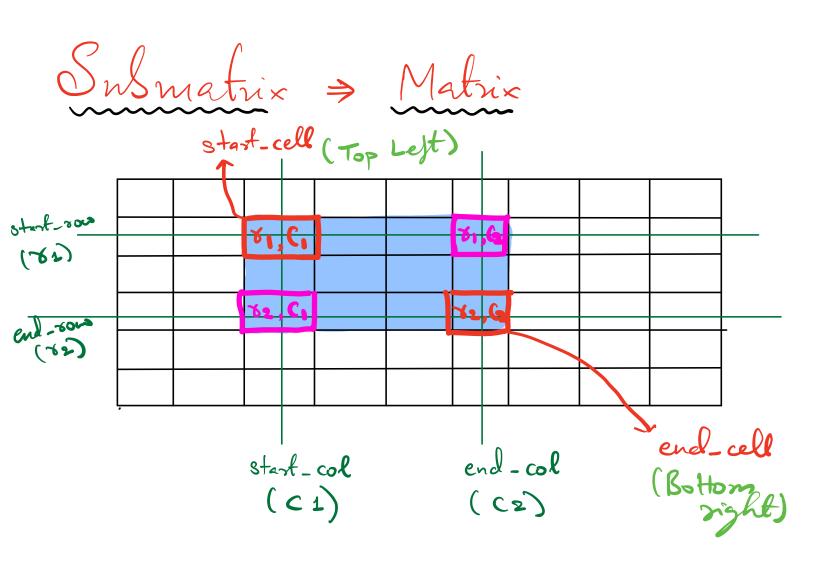
## Antermediate Contest > Reetlempt 2 Sat & Sunday.





Submetrix > (81, C1) to (72, C2)

Given a metrix of size  $N \times M$ Point a given submetrix from (81, (1)) (82, (2)) (82, (2)) (82, (2))  $(83) \times (93) \times (93)$   $(83) \times (93) \times (93$ 

Code

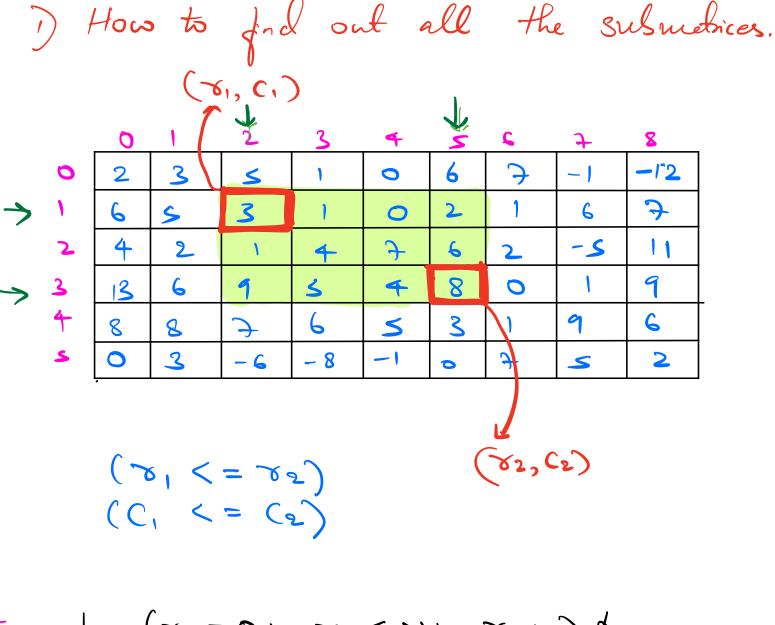
$$f_{ab} = \{i = \{i, i < = \{i = \{i\}\}\}\}$$
 $f_{ab} = \{i = \{i\}\}\} = \{i, j < = \{i\}\}\}$ 
 $f_{ab} = \{i = \{i\}\}\} = \{i\}$ 
 $f_{ab} = \{i\}$ 

 $T.C. = O(N \times M)$ Dun of a Given Susmetrix (82, (2) Sum = 0;  $f_{2}$   $(i=x_1, i<=x_2; i++) < f_{2}$   $(j=c_1, j<=c_2; j++) <$ sum = sum + M[i][j]; Sum of All Submetrices.

Sum of All Submetrices. Given a metrix of Size NXM.

find the Sum of all submetox sum.

Print ("/m");



Bottom  $\begin{cases} b_{2} & (x_{2} = x_{1}), x_{2} < M', x_{2} + + ) d \\ p_{3} & (x_{2} = x_{1}), x_{2} < M', x_{3} + + ) d \end{cases}$ 

bgi

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$$T.C. = O(N^2 M^2)$$

$$\begin{bmatrix} 1, 2, 3 \\ 2, 4, 6 \end{bmatrix} \Rightarrow \begin{bmatrix} 1 \\ 1, 2 \end{bmatrix}$$

$$\begin{bmatrix} 2, 3 \end{bmatrix}$$
  $\begin{bmatrix} 3 \\ 6 \end{bmatrix}$   $\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ 

$$\begin{bmatrix} 2 \\ 4 \end{bmatrix} \qquad \begin{bmatrix} 2 \\ 2 \end{bmatrix} \qquad \begin{bmatrix} 1 & 2 \\ 2 & 4 \end{bmatrix}$$

$$\begin{bmatrix}
 2, 3 \\
 4, 6
 \end{bmatrix}
 \begin{bmatrix}
 2, 4
 \end{bmatrix}
 \begin{bmatrix}
 2, 4
 \end{bmatrix}
 \begin{bmatrix}
 2, 4, 6
 \end{bmatrix}
 \begin{bmatrix}
 2, 4, 6
 \end{bmatrix}
 \begin{bmatrix}
 2, 4, 6
 \end{bmatrix}$$

ans = 0;

Top [ for ( & i = 0; & i < M; & i ++) &

Left [ for ( c i = 0; C i < M; C i ++) & Bottom  $\{x_2 = x_1; x_2 < M', x_2 + +\} d$ s = som + M s = ans + som ;sum = sum + Mlissis  $T.C. = O(N^3 \times M^3)$ 

	0			j	M-1
<b>( )</b>					
62					
\					
i				i,j	
<b>-49</b> -					
62					
N-1					

# Submetices

MSiz[j] would = 
$$(i+i)(N-i)(j+i)(M-j)$$

Let a part of

Code

ans = 0;

 $f^{**}(j=0; j < M; j++) < f^{**}$ 
 $f^{**}(j=0; j < M; j++) < f^{**}(j=0; j$ 

ans = ans + contri;

$$T.C = O(N \times m)$$

$$S.C = O(1)$$