

राधा राधा

## Assignment Questions

QI First Missing Integer

$$A = \begin{bmatrix} 3 & 4 & -1 & 1 \\ 0 & 1 & 2 & 3 \end{bmatrix}$$

$$3 \iff -1 \quad \begin{bmatrix} -2 & 4 & 5 & 1 \end{bmatrix}$$

$$A = [2, -2, 3, 4]$$
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02 Sum g all submatrices =) We need to figure out how many times does each element appear in all the submatrices : Occurences = (ixj) + (N-i) x (M-j) => Contribut = A[i][j] x [ (ixj) + (N-i) x (M-j)] 03 Search in now-wise and column wise matrix We can only begin search either from top-right on bottom-light corner Why? -> Because we are free to move in either direction band on value of dement

Code. i = 0 j = A[o]. length - 2 , min = MAX\_INT; while ( i < N 44 j >= 0) if CACIJCj] = B) ( min = Math.min( ix1009+j , min);

3 es if CAEiJEj] > B) ( ù-;

return min = = MAX\_INT? -2: min;