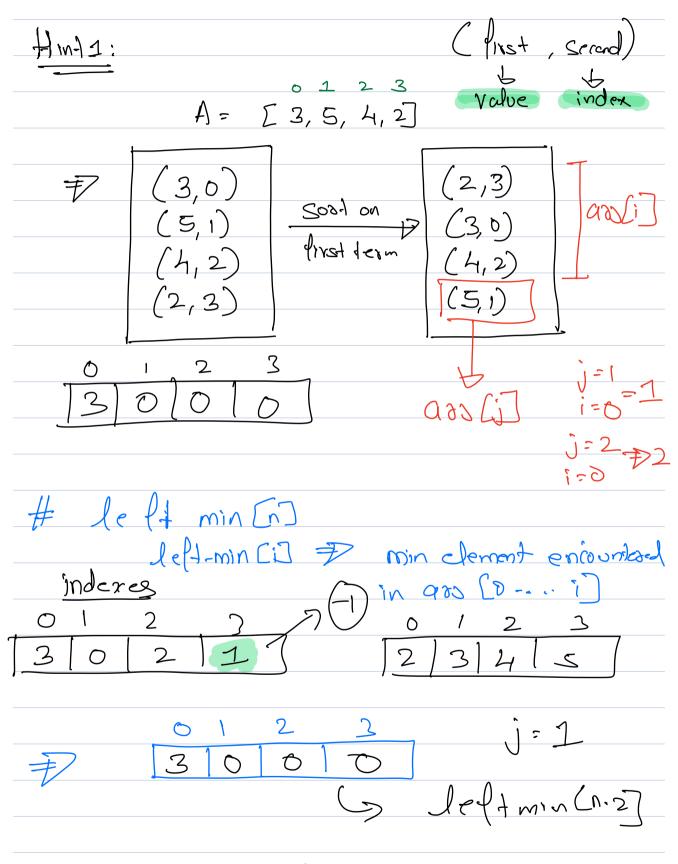
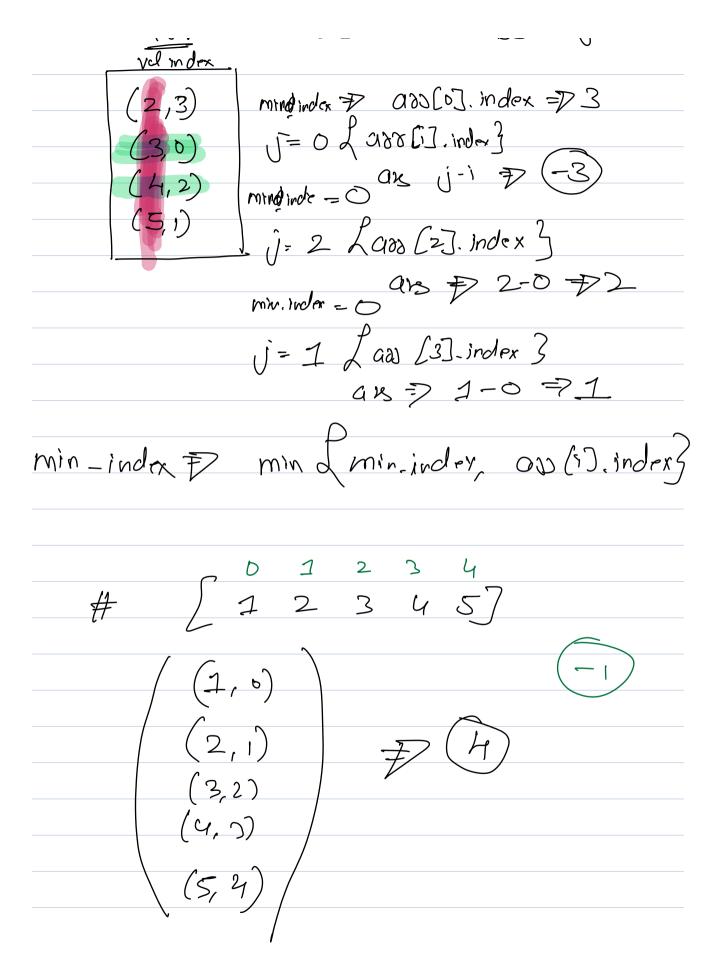
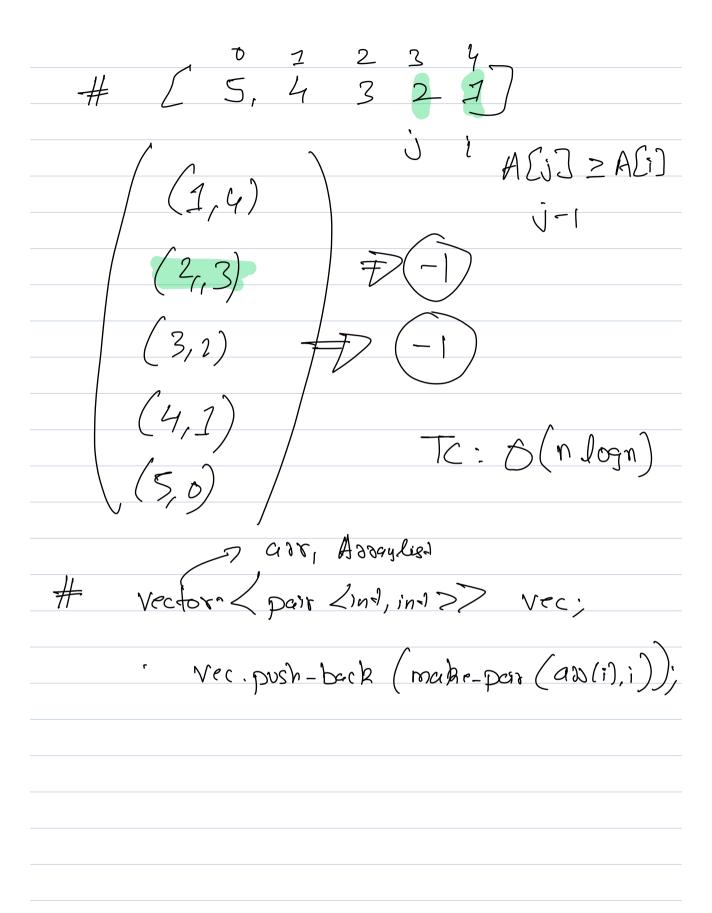
7 days. Total => 168 Sleep = 49 (7x7) Office \$50 (5x 10)
Notionals \$721 (7x3)
For \$721 (7x3) Scaler clus \$ 9 (3x2) Prac => 168-150 =>

OI Given an array of size N. Find the
On Given an array of size N. Find the Maximum value of joi such that ADJ = ABD.
Constrainte 1 \le n \ge 10^5 \rightarrow Tc possible \rightarrow O(n) -10^9 \le A(i) \le 10^9 O(nlayo)
0 1 2 3 O(n√n)
\mathcal{E}_{g} : $A = [3, 5, 4, 2]$
j=3: no i available
$j = 2 : i = 0$, and $\neq 2 - 0 + 2$
$\int_{-\infty}^{\infty} \frac{1}{2} \cdot \left(\frac{1}{2} - 0\right) = \frac{1}{2} \cdot \left(\frac{1}{$
j=1: i=0, ax => 1-0 >> (1)
j=0: no j ovvilable
Boule Posie: Chack for every Dass.
$Tc: O(n^2).$
S(: 0(1)



arr adolo] will never be our i

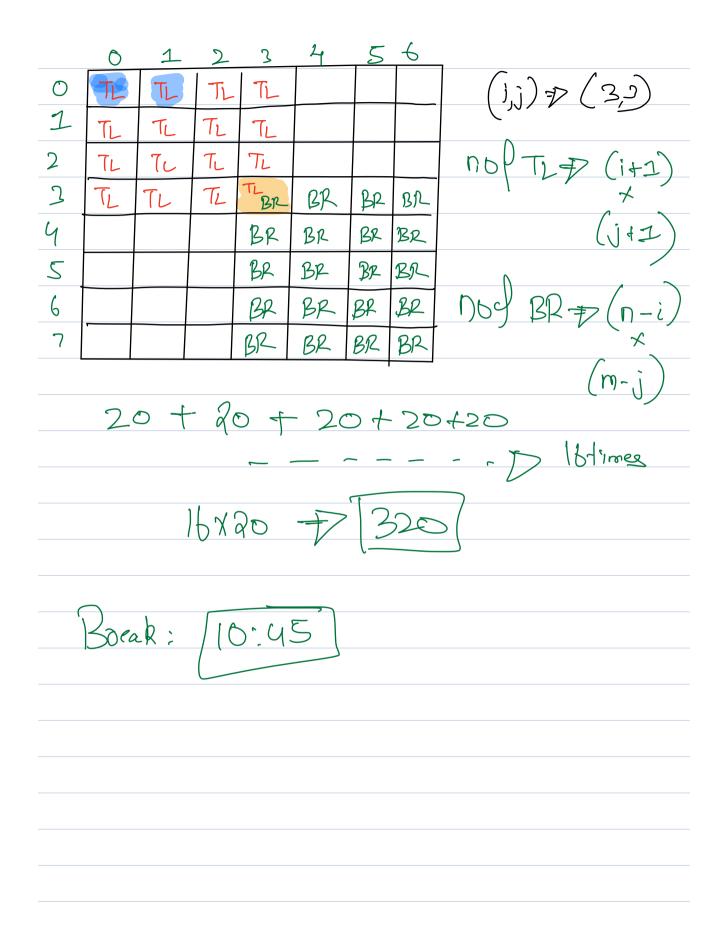




Given a mortix of size NXM, find the som of all submartix sum. 1. $\begin{bmatrix} -1-2 \\ 24 \end{bmatrix} \begin{bmatrix} -2 \\ 4 \end{bmatrix} \begin{bmatrix} -2 \\ 4 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \end{bmatrix}$ Sem => (3x6)+(1xb) + (1x8) + (-2x8) + (2x6) + (4x6) =

$$\begin{bmatrix} a,b \end{bmatrix} \Rightarrow b-a+1$$

$$\begin{bmatrix} j,n \cdot i \end{bmatrix} \Rightarrow n \neq -j + I = (n-j)$$



03	Given		م	2	\mathcal{D}	Mat	six, every row 200 ted, every
	col	umn	یو	600 p	. be	F	Find an element K. n=80005
			K=19	5			m = coloms
	0	1	2	3	4	5	
0	-1	2	4	5	9	11	Brote Porce 1: Idesale on every clement): To: O(mn)
1	1	4	7	8	10	14	every demant): Tc: (mn)
2	3	7	9	10	12	18	
3	6	10	12	14	16	20	Boote Pose 2: Iderate on
4	9	13	16	19	22	24	each you and do binasy
5	11	15	19	21	24	27	search T(: O(nlogm)
6	14	20	25	29	31	39	
7	18	24	29	32	34	42	Boote Pose 3: Iderate on
							each column and do binasy
							each Column and do binasy seasch To: O(mlogn)
							-

K=15 i= 0 ;= m-1 while (jzolfiln) { if (087[i][i] >12) d // ignose below j--;
3 else if (aos [i][i] = k)

(l'ignore left dedum dave; TC: O (m+n) Sc: O (2) AA, B,B,A,B,A,B... $(n+m) \neq 0$

