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Initialise

$$2P \Rightarrow 80N \Rightarrow 2$$
 $\Rightarrow int a88[2][4] = { {10, 20, 30, 40}, }$

$$2D = 7 80W + 3$$
 $col > 5$
 $ent an[3][5] = {$

	Co	Cı	Cz	5	C4
50 ->	1	2	3	4	5
6, ->	6	7	8	Oy	10
₹2 ->	10	20	30	40	50

{1,2,3,4,5}, {6,7,8,9,10}, {10,20,30,40,50}

Access

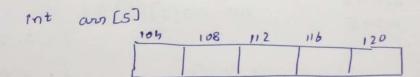
		0	1	2
2 2 2		(0,0)	(0,1)	(0,2)
	0	10	20	30
		(1,0)	(1,1)	(1,2)
)	40	50	60
	-	(2,0)	(2,1)	(2,2)
	2	70)	80	90

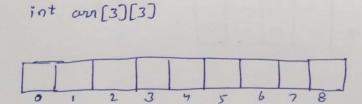
ann[i][j]

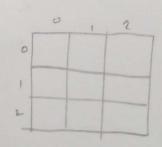
i => sow index

j => cot index

$$a \times b = 0 = 10$$
 $a \times b = [0](1) = 20$
 $a \times b = [0](2) = 30$
 $a \times b = 0 = 40$
 $a \times b = 0 = 40$
 $a \times b = 0 = 50$
 $a \times b = 0 = 50$
 $a \times b = 0 = 70$
 $a \times b = 0 = 80$
 $a \times b = 0 = 90$







Sept.

$$(285 [1][1]) = \begin{cases} c \times i + j \\ 3 \times 1 + 1 \Rightarrow 6 \end{cases}$$

C-> columns

	0	,	2	3	
0	10	20	30	40	
,	50	60	70	80	
2	90	100	110	120	-
3	130	140	150	160	-
4	170	180	190	200	

	7		1	1							400								
					60	70													
0	1	2	3	4	5	6	7	2	9	10	1)	12	13	19	B	10	17	-18	19

int
$$a \times \delta [][3] = \{$$
 2D col $\{1, 2, 3, 4\},$ $K \circ \{5, 6, 7, 8\}$

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The same

To 3

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K-13

K-43

The sale

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5-3

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Company of the Compan

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

for (i=0; j < col; j++) {

 cout < con (c) (i)

}

	0	,	2	3
Ī	(0,0)	0,1	0,2	0,3
0	10	20	30	40
	1,0	1,1	1,2	1,3
1	50	60	70	80
	2,0	2,1	2,2	2,3
2	90	100	101	110
	3,0	3,1	3,2	3 3
3	120	130	140	150

column wise occess

for $(i=0; i \times xol; i++)$?

for $(i=0; j \times xol; i++)$?

cout $(i=0; j \times xol; i++)$? $(i=0; j \times xol; i++)$? $(i=0; j \times xol; i++)$?

	0	1	2	4
1	(0,0)	(0,1)	(0,2)	P, 4)
0	1	2	3	4
	(1,0)	(1,1)	(1,2)	(1,3)
1	10	20	30	40
	(2,0)	(2,1)	(2,2)	(2,3)
2	17	21	13	14
	(3,0)	(3, 1)	(3,2)	8.3)
3	20	22	93	47

Searching

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	0	1	2
1	3	1	1
0	10	20	30
-	-	D	11
1	40	50	60
	The state of		
2	(70)	80	90

1/F=>
2 LOOP

2 Loop Lis if (an (i)(i) = = tanget)

oction tove

target => 70

otherse octuon folse

Max no. in an 2D away

int maxAns = INT_MIN;

if (no > manies)

La maxans = no

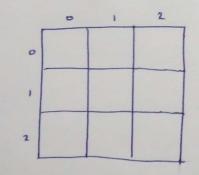
2 Loop logenge

int min Ans = INT- MAX

if (no a mones)

Lo minitime no

column wise sum (H/W)



for (i -> i < col) {

rnt sum = 0

for (i -> j < row) {

sum + = arri

}

cout < sum

}

CARRELLE CONTRACTOR OF BURNESSED AND CONTRACTOR AND

Diagonal sum

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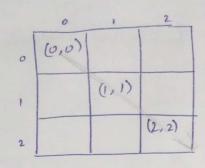
(M

7790

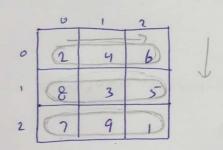
rm

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ros



Transpose of a mateix

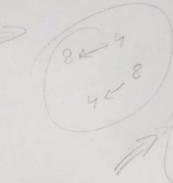


	0	1	2
0	2	8	7
1	4	3	9
2	6	5	U

$$a \times \delta[0][0] \longleftrightarrow a \times \delta[0][0]$$
 $a \times \delta[1][0] \longleftrightarrow a \times \delta[0][1]$
 $a \times \delta[2][0] \longleftrightarrow a \times \delta[0][2]$
 $a \times \delta[2][1] \longleftrightarrow a \times \delta[1][2]$

0 1 2 2 44 6 1 1 2 2 2 2 7 9 1

swap (anci) (i), an [i] [i)



woolk only on square matoix

_			1	
	6	8	76	
X	48	(3)	95	71
X	bx	59	(2,2)	
				V

(0,0) (0,0) (0) (0) (0)

(0,1)
aso[0][i] (aso[i][u]

(3) (0,2) aso[0](2) (-) aso [2)(0)

(1,1)
axo[1][1]() aco[1][1]

(1,2) aso[i][2] (-> aso[i][2]

(b) (2,2)

aso[2][2) (-) aso[2][2]

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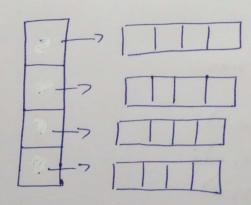
1

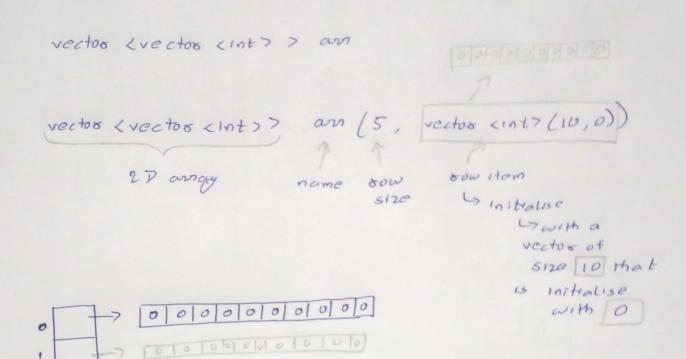
- 1 D -> vector kint > am
- 27 -7 vector (vector (int)) axx

vector kint? V



vector (vector Lint>> V





9

H/W => jagged array

3

vector (vector (Int)) boo;

0000000000

vector vector cont > vec1 (10,0);
vector cont > vec2 (5,1);
vector cmt > vec3 (7,0);
vector cmt > vec4 (4,1);

boo. push-back (vec 1);
boo. push-back (vec 2);
boo. push-back (vec 3);
boo. push-back (vec 4);