

2D ARRAY

row = 5
col = 4

	0	1	2	3
0				
1				
2				
3				
4				

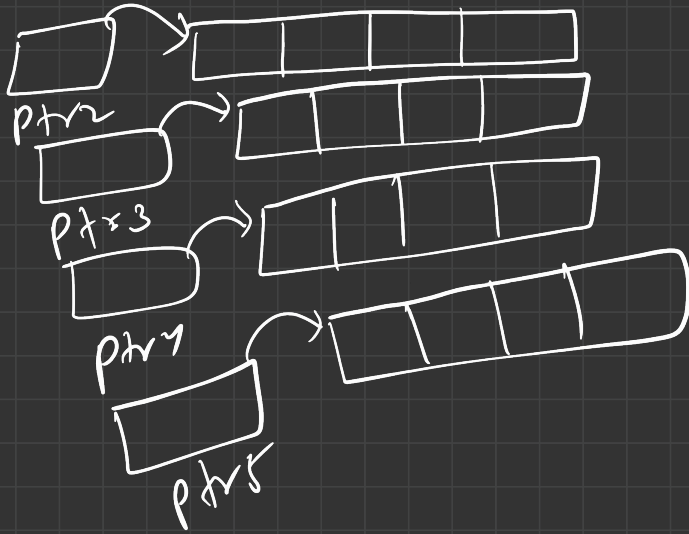
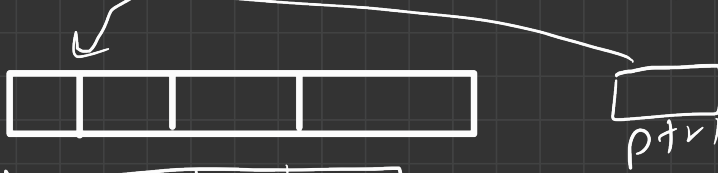
int *ptr1 = new int [4]

int *ptr2 = new int [4]

int *ptr3 = new int [4]

int *ptr4 = new int [4]

int *ptr5 = new int [4]



→ `int *ptr1 = new int [4]`

→ `int *ptr2 = new int [4]`

`int *ptr3 = new int [4]`

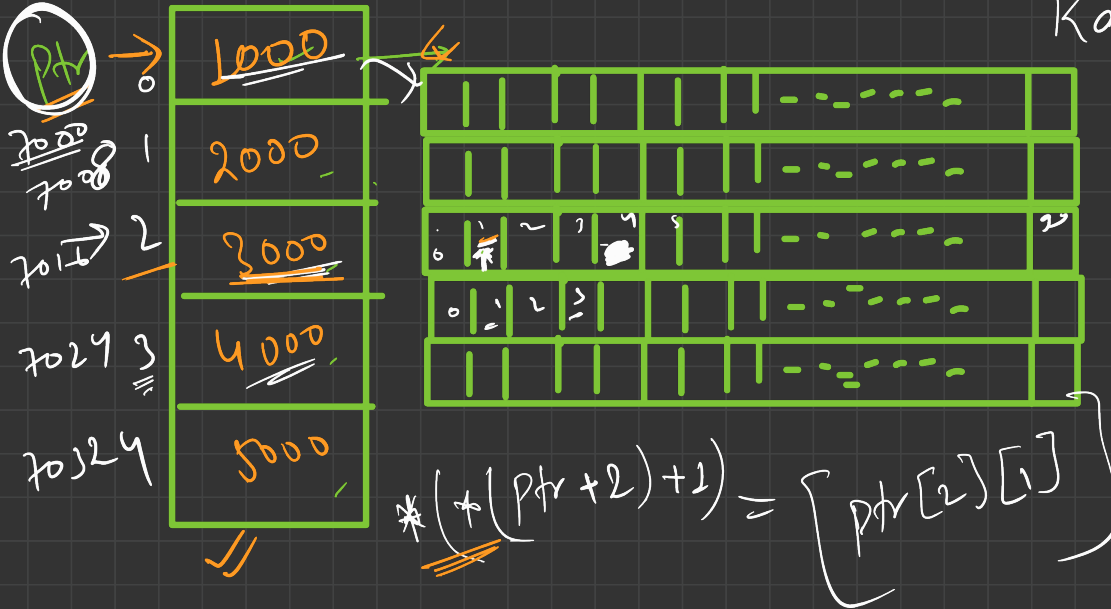
`int *ptr4 = new int [4]`

`int *ptr5 = new int [4]`

row = 100
col = 200

row = 5
col = 100

- ① 1D Array store add
- ② Har ek add store
Karega ek array ko



7000
ptr

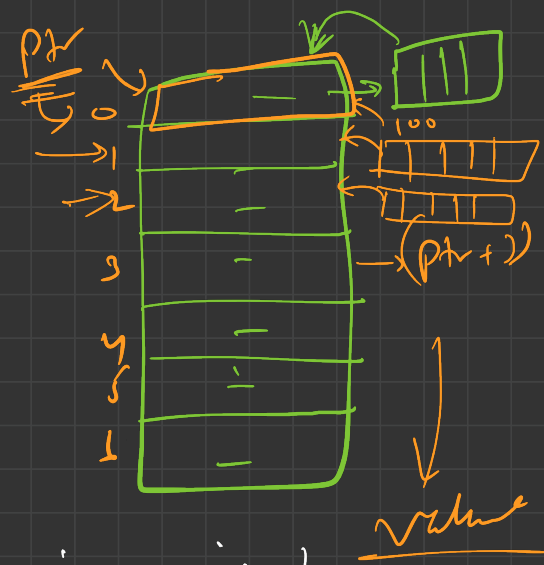
$*(*(ptr+2)+1)$
2D
2 pointer

int ** ptr

```

int **ptr = new int *[n]
for (i=0; i<n; i++) {
    ptr[i] = new int[m];
    for (j=0; j<m; j++) {
        cin >> ptr[i][j];
    }
}

```

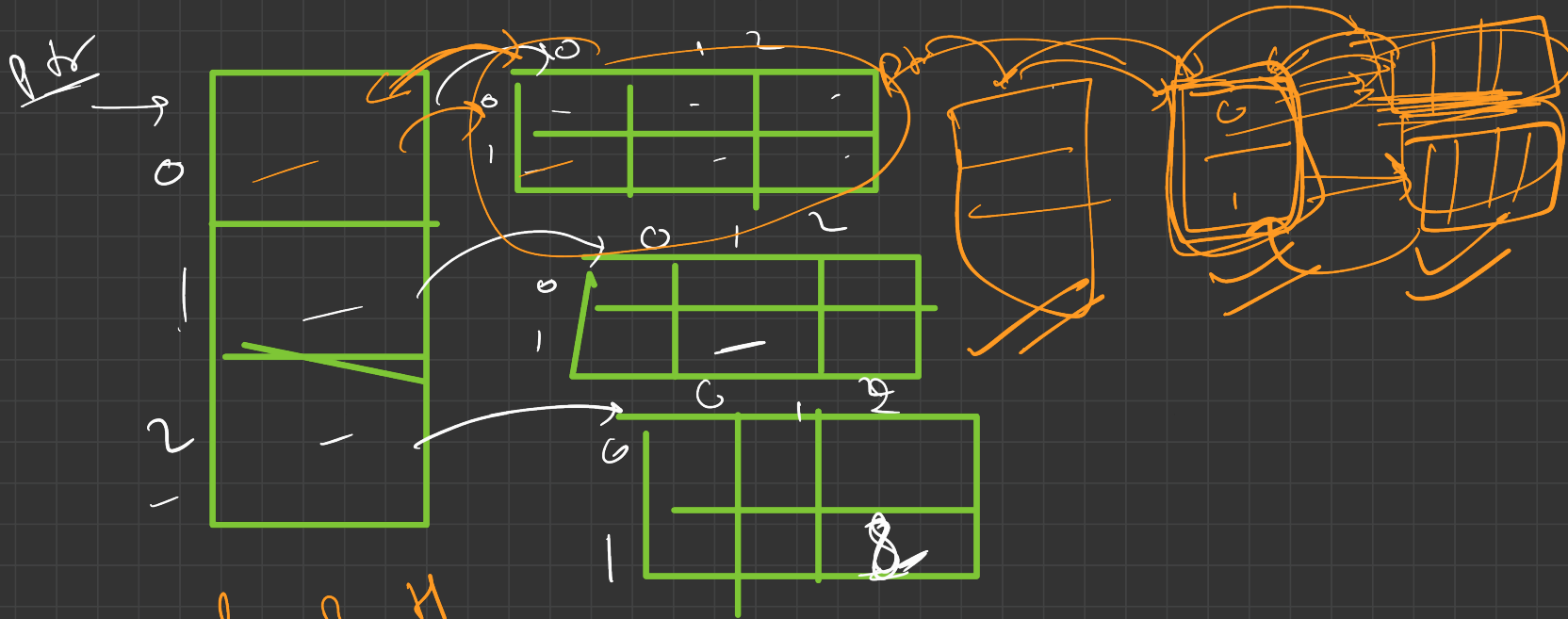


```

for (i=0; i<n; i++)
    delete [] ptr[i];
delete [] ptr;

```

delete [] ptr



$$\begin{aligned}
 & \text{ptr}[2][1][2] \rightarrow \text{ptr} + 2 \\
 & \text{ptr}[1][1][1] \rightarrow \text{ptr} + 1
 \end{aligned}$$

```
int *** ptrv = new int *** [L].  
for (i=0; i<L; i++) {  
    3D { ptr[i] = new int * [B]  
        2D { for (j=0; j<B; j++) {  
                ptrv[i][j] = new int [1];  
            }  
        }  
    }  
}
```

4D
4.1.10 → point

$[int \quad arr[4][5]]$
cout << arr } same
cout << arr[0]
cout << arr[0][0] } → value

M

