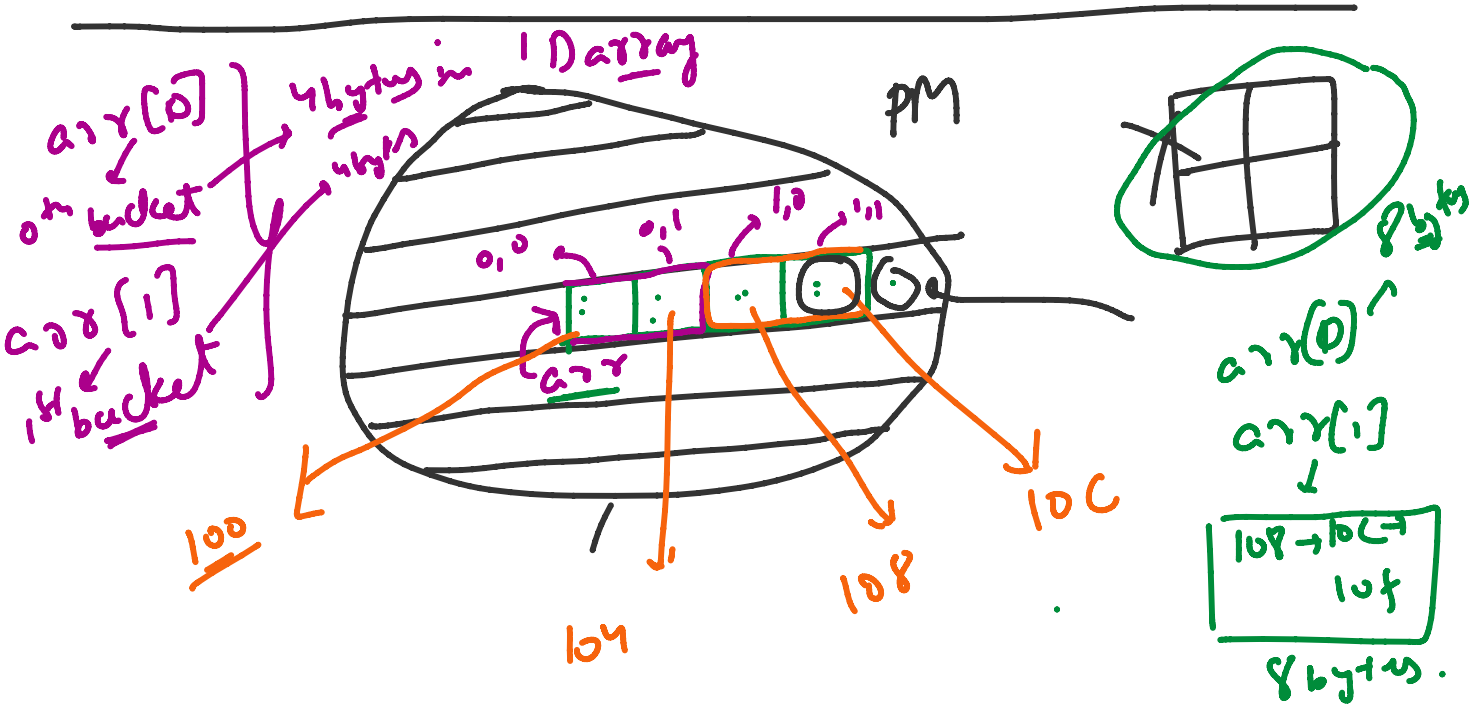
# 2 D arrays

01 July 2023 08:56

mat[2][2] = $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$

arr[2][2] = {{1, 2},
{3, 4}};




in 1D array

arr[i] → (arr + i)

in 2D array

int arr[i] → (arr + i x 4 x sizeof)

int arr[i] → (arr + i × (sizeof datatype) × (col size))

arr[i][j] = (arr + (i × n × sizeof) + (j × sizeof))

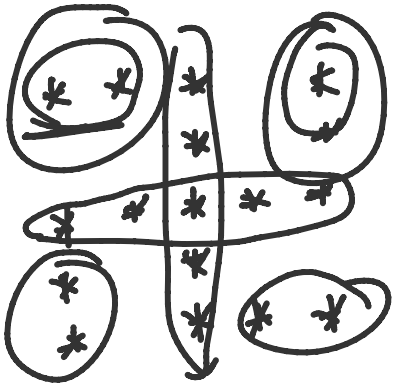
int arr[2][2] = arr[1][1]

*(arr + 1 × 4 × 2 + 4)

(arr + 8 + 4)

(1)[1] → arr + 12

arr[0][3] → arr + 12




r = r/2 = *

c = c/2 = *

if cr = 0, cc = c/2

rr = r/2

'
'ifcc=c1