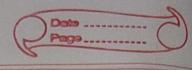


7	Static Array	Dynamic array.
7	Memory alocated at rompile time	memory allocated at
	Size is fixed becz memory for array is contigeous stored in stack	Size not fixed Che can be fixed) Stored in heap
	In stack int A[3] [4]; A Method I to make a 2D array. no d Row redcolumn M'ethod 2	
	int * A[3]; A[0] = new int [4] A[1] = new int [4] A[2] = new int [4]	A 0 1 2 3 0 1 1 1 1 1 1 1 1 1 1
	Method 3 int ** AE; A= new int*[3] A[0] = new int [4] A[1] = new int [4]	7,

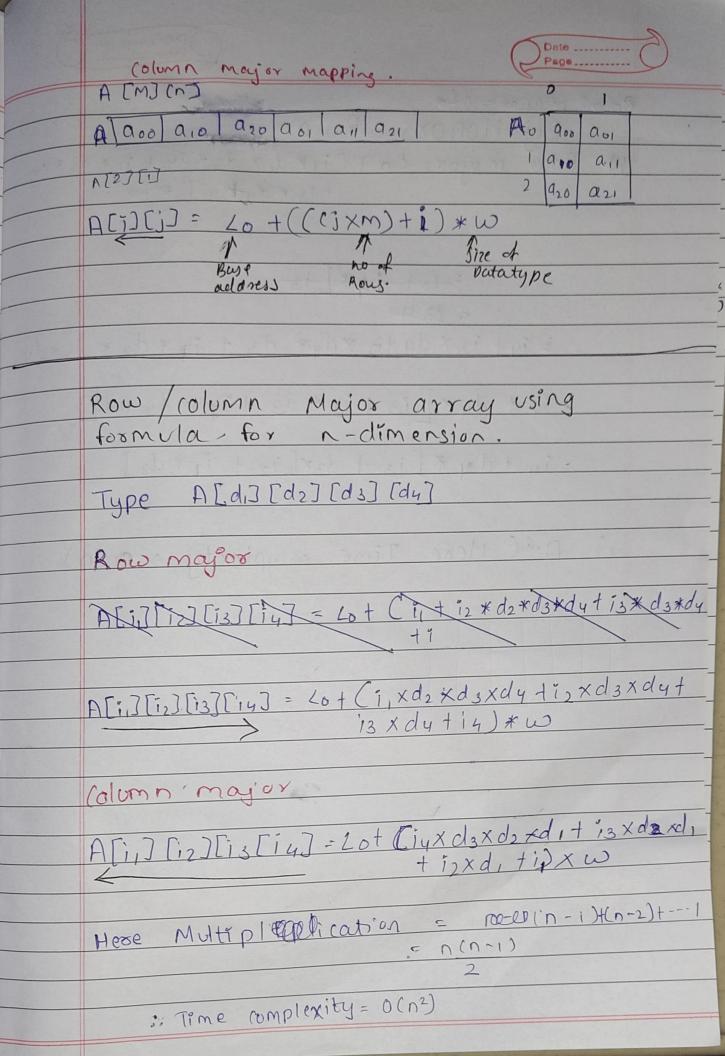


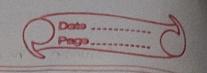
Row majos mapping. > How to convert any index to address in arrange Address index bata type.

Address number > If index start from I > Lot(i-1)*w For 2 D-array - How to convert any index to address in goody Add (A [i] [i]) = 20 + [a] [i] Add CA [i][j]) = Lo + (i*n+j)* w Size of

page index no of column

address no of column If index starts from I = Lo + (Ci-1)*n+(j-1) *w





Rowe prajor= 020 By Honors Rule

Po Row major= Lot (i1 x d2 x d3 x dy t 12 x d3 x dy

+ i3 x dy + i4] + w.

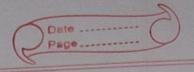
= 6+ 34 = [13

= i4+ i3 x dy +i2 * dy * d3 + i7 * d2 * d3 x dy

- i4 + d4*[i3 + i2 * d3 + i4 * d3 * d2]

= "14 + day * [i3 + d3*[i2 + ", * d2]

.. All Here Time complexity -> O(n)



3-D array.

int A[I][m][n];

Row-major

Row Add CATIZCIJEK]) = Lo + (ixmxn+jxxn)+ K)

Add(A[i][j][k]= Lot(i*m*n+j*n+k)*w

Column major

ACIJCIJCKJ = Lot (K*m*l+j*l+i)*W

X[4][3]= { {1, 2, 3}, {4,5,6}, {7,8,9}, [10,11,12]}

x+3 < 3rd row address

*(x+3) \in 3rd row addres)

*(x+2)+3 \in address

address