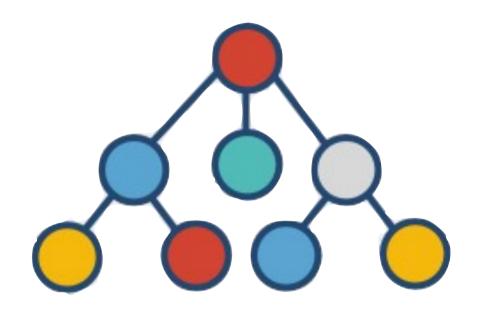
DATA STRUCTURE & ALGORITHMS



(By Prince Agarwal) ("HELLO WORLD")

Multidimensional array means, —> Array of Array

Two dimensional array: int two_d[10][20];

Three dimensional array: int three_d[10][20][30];

- Multidimensional array means, —> Array of Array
- Two dimensional array: int two_d[10][20]

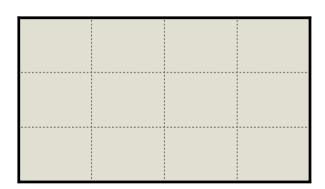
arr [i] [j]

Iwo dimensiona	arr		
Int arr [3][3]	;		
	Column 0	Column 1	Column 2
Row 0	x[0][0]	x[0][1]	x[0][2]
Row 1	x[1][0]	x[1][1]	x[1][2]
Row 2	x[2][0]	x[2][1]	x[2][2]

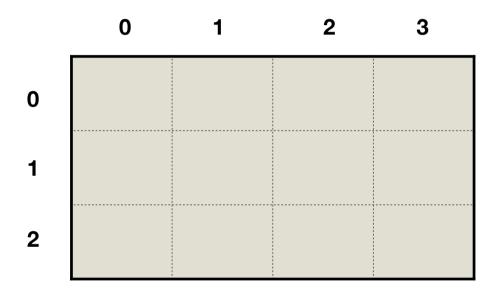
■ Multidimensional array means, —> Array of Array

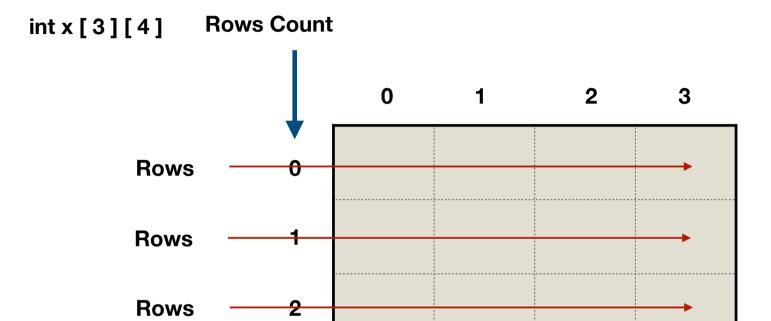
- Int arr [3];
- Int arr $[3] = \{4, 0, -1\};$
- int x [3] [4] = $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11\}$
- int x [3] [4] = { $\{0,1,2,3\}, \{4,5,6,7\}, \{8,9,10,11\}\}$;

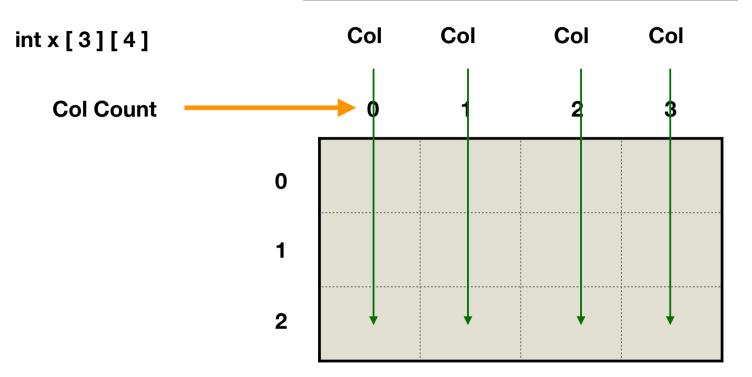
int x [3][4]

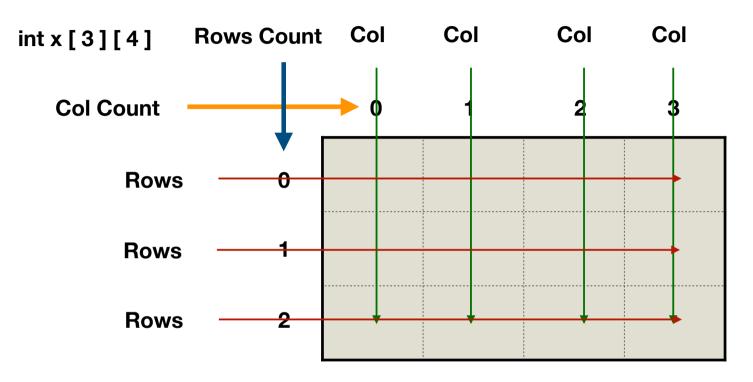


int x [3][4]









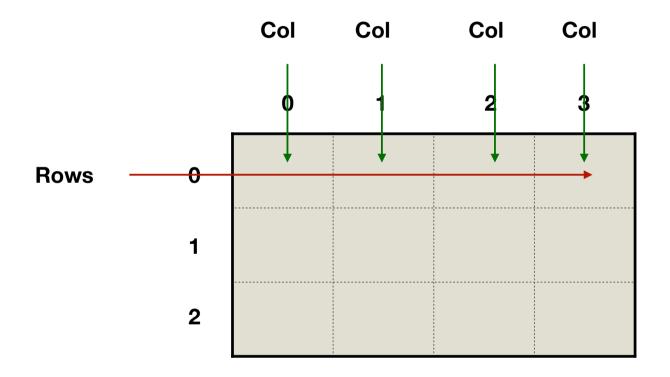
Operations in MATRIX

Print the MATRIX

0 1 2 3
0 1 2 3

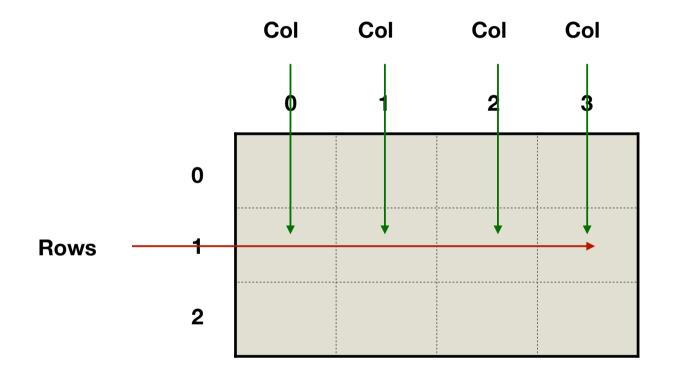
Operations in MATRIX

Print the MATRIX



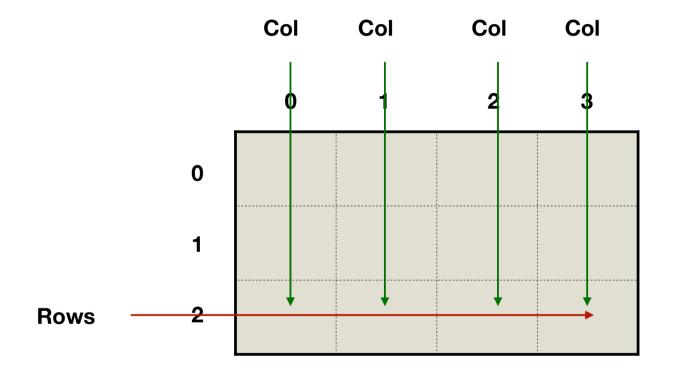
Operations in MATRIX

Print the MATRIX

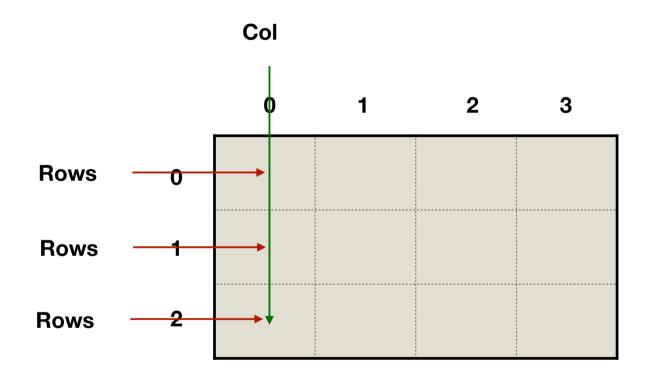


Operations in MATRIX

Print the MATRIX



Now, You can ask me, we can also start with a column

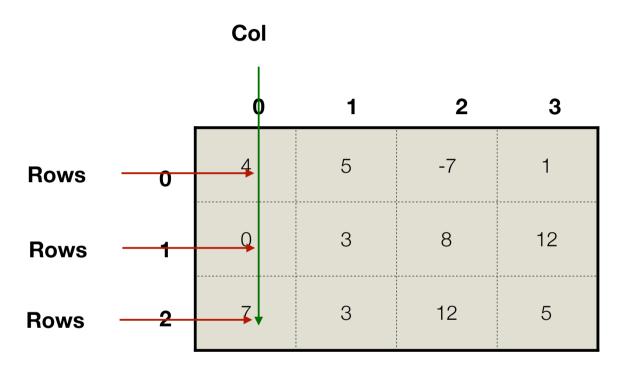


Now, You can ask me, we can also start with a column

	0	1	2	3
0	4	5	-7	1
1	0	3	8	12
2	7	3	12	5

4, 5, -7, 1, 0, 3, 8, 12, 7, 3, 12, 5

Now, You can ask me, we can also start with a column



4, 0, 7, 5, 3, 3,

Now, You can ask me, we can also start with a column

	_	0	1	2	3
	0	4	5	-7	1
Matrix [3] [4] =	1	0	3	8	12
	2	7	3	12	5

Matrix [n][m]

Int row_size = matrix.size();
Int col_size = matrix[0].size();

Now, You can ask me, we can also start with a column

	-	0	1	2	3
	0	4	5	-7	1
Matrix [3][4]=	1	0	3	8	12
	2	7	3	12	5



Matrix [1][5]

Int row_size = matrix.size();
Int col_size = matrix[0].size();