-: Jagged 2D Array :-

Syntax :-

Declaring Array Reference :-

<data type> [][] <array Ref> = new <data type>

[Row] [ ]

↓

Blank

Because it Jagged array

Declaring the actual array :-

<array ref Name> [Row index No.] = new <data type> [colour size]

0

1

2

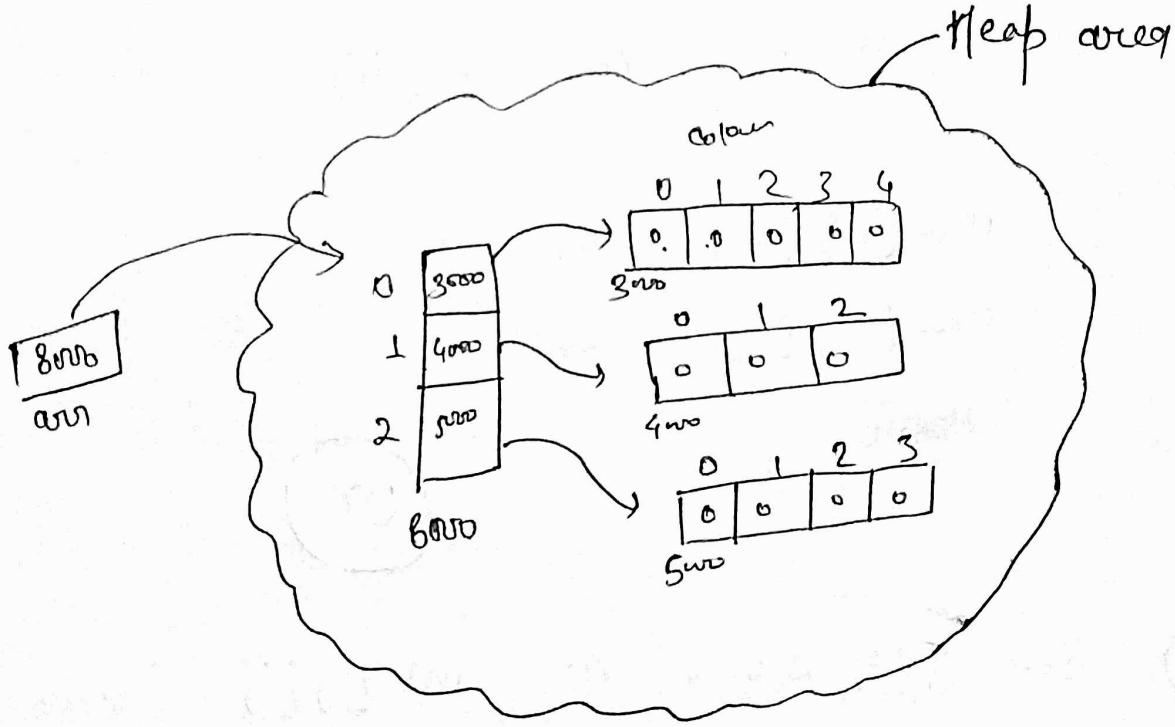
:

/

Example

```
int [][] arr = new int [3][];

arr [0] = new int [5]   → column size
arr [1] = new int [3];
arr [2] = new int [4];
```



Accessing a Jagged 2D array

```
arr [0][0] = 10;
arr [0][1] = 20;
```

→ 10 20

Initialization 2D array:-

1) int [][] arr = new int [3][];

arr [0] = new int [6];
arr [1] = new int [3];
arr [2] = new int [4];

arr [0] [0] = 10;
arr [0] [1] = 20;
arr [;

(OR)

2). int [][] arr = new int [][] { {10, 20, 30} {40, 50}
{40, 60, 80, 90} };

3). `int [][] = new int [3][];`

```
arr[0] = new int [] { 10, 20, 30, 40 };
arr[1] = new int [] { 20, 40 };
arr[2] = new int [] { 90, 110, 12, 120 };
```

Input taking in Jagged Array :-

```
int [][] arr = new int [3][];

    arr[0] = new int [4];
    arr[1] = new int [2];
    arr[2] = new int [5];

  Scanner sc = new Scanner (System.in);

for (int i=0; i<arr.length ; i++)
  {
     for ( int j=0 ; j<arr[i].length ; j++)
     {
        Sop ("enter No !!) ;
        arr[i][j] = sc.nextInt();
     }
}
```