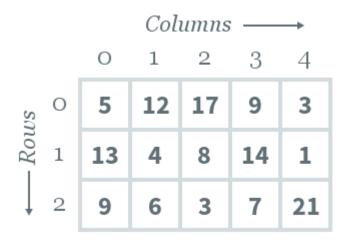
2D Array

A multi-dimensional array is an array of arrays. 2-dimensional arrays are the most commonly used. They are used to store data in a tabular manner.



2D Array of size 3 x 5

. data_type: Type of data to be stored in the array. For example: int, char, etc.

. dimension: The dimension of the array created.

For example: 1D, 2D, etc.

. array_name: Name of the array

size1, size2, ..., sizeN: Sizes of the dimensions respectively.

Two dimensional array:

```
int[][] twoD arr = new int[10][20];
Three dimensional array:
int[][][] threeD_arr = new int[10][20][30];
Declaration – Syntax:
data_type[][] array_name = new data_type[x][y];
           For example: int[][] arr = new int[10][20;
Initialization – Syntax:
int[][] arr = {{1, 2}, {3, 4}};
array_name[row_index][column_index] = value;
           For example: arr[0][0] = 1;
print 2D Array:
public static void main(String[] args)
        int[][] arr = { { 1, 2 }, { 3, 4 } };
           for (int i = 0; i < 2; i++)
                for (int j = 0; j < 2; j++)
                      System.out.println("arr[" + i + "][" + j + "] =
11
                                                + arr[i][i]); }
```