

# Java-2DArrays

# Creating a 2D Array in Java

- A 2D array is an array of arrays
- each inner array is a "row"

## Declaring a 2D Array

```
int[][] array2D = new int[rows][columns];
```

## Initializer lists for 2D Array

```
int[][] array2D = { {1, 2, 3},  
                    {4, 5, 6},  
                    {7, 8, 9} };
```



# Accessing Elements in a 2D Array

A 2D array is an array of arrays, so accessing an element requires two indices: one for the outer array and one for the inner array.

```
int element = array2D[rowIndex][columnIndex];
```

Example:

```
int[][] array2D = { {1, 2, 3},  
                   {4, 5, 6},  
                   {7, 8, 9} };  
int element = array2D[1][2]; // element = 6
```