

CS239

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Reading Quiz 1/3

What is a two dimensional array in Java?

- 1 An array of arrays, which may be visualized as being organized into rows and columns.
- 2 Any array with two entries.
- 3 Java does not provide support for two dimensional arrays, but is possible to create a TwoDArray class.

Reading Quiz 2/3

Which of the following illustrates the correct syntax for declaring and initializing a 2D array of integers in Java?

- 1 `2DIntArray data = new 2DIntArray(3,5);`
- 2 `int[2] data = new int[3, 5];`
- 3 `int [] [] data = new int[3][5];`
- 4 `int [[]] data = new int[3][new int[5]]`

Reading Quiz 3/3

What is a “ragged array”?

- 1 Any non-sorted array.
- 2 A 2D array which contains some null entries.
- 3 A 2D array in which not all rows have the same length.

Clicker Question

After the following declaration:

```
1 int [][] data = new int [3] [5];
```

What are the types of data, data[0], and data[0][0], respectively?

- 1 int, int, int
- 2 int[], int[], int[]
- 3 int, int[], int[][]
- 4 int[][], int[], int

Clicker Question

What does the following method accomplish?

```
1 public static void mystery(int[][] array)
2 {
3     int[] tmp;
4     for(int i = 0; i < array.length / 2; i++)
5     {
6         tmp = array[i];
7         array[i] = array[(array.length - i) - 1];
8         array[(array.length - i) - 1] = tmp;
9     }
10 }
```

- 1 Converts a two-dimensional array to a one-dimensional array.
- 2 Reverses the order of the rows of array.
- 3 Reverses the order of the columns of array.
- 4 It doesn't accomplish anything, since nothing is returned.