

<p>Code you cannot see creates an int array <b>nums</b> that contains this data:</p> <pre>1 2 3 4 5 6 7 8 9 0</pre>	<p>1. Write one line of code to print the 7 from array <b>nums</b>.</p> <pre>System.out.println(nums[1][2]);</pre> <p>2. Write one line of code to replace the value 5 with the value -5 in the array <b>nums</b>.</p> <pre>nums[0][4] = -5;</pre>
<p>3. Declare a 10 by 20 String array named <b>words</b>.</p> <pre>String[][] words = new String[10][20];</pre>	<p>4. Set the bottom right element of <b>words</b> to "X".</p> <pre>words[9][19] = "X";</pre>
<p>5. In code you cannot see I created a 2D array named <b>mystery</b>. Write code to print how many elements are in the array:</p> <pre>System.out.println(mystery.length * mystery[0].length);</pre>	
<p>6. Using an array initializer, create a 2D integer array named <b>values</b> that contains the information shown to the right arranged as shown in two rows and four columns.</p> <pre>int[][] values = { {3, 4, 5, 6}, {7, 8, 9, 0} };</pre>	<pre>3 4 5 6 7 8 9 0</pre>

7. Given a 2D double array **nums** filled with valid data, write code to find the max, min and average. Just create a variable named **max**, one named **min**, and one named **average**, and make sure they contain the right values when you are done (don't print anything).

```
double max = nums[0][0];
double min = nums[0][0];
double total = 0;
for (int r = 0; r < nums.length; r++) {
    for (int c = 0; c < nums[0].length; c++) {
        if (nums[r][c] > max) max = nums[r][c];
        if (nums[r][c] < min) min = nums[r][c];
        total += nums[r][c];
    }
}
double average = total / (nums.length * nums[0].length);
```