Lab 02: Arrays

Write a public class called Main and implement class/static methods for each of the following:

1. (1) Print your full name.

   ```
   public static void displayName
   ```

2. (2) Print a 1-dimensional int array (elements should appear on 1 line with spaces between them).

   ```
   public static void displayArray
   ```

3. (2) Print a 2-dimensional int array (one row per line).
4. (2) Determine if two 1-dimensional arrays are equal (return boolean).
5. (3) Determine if two 2-dimensional arrays are equal (return boolean).
6. (2) Find the sum of a 1-dimensional array (return int).
7. (3) Find the sum of a 2-dimensional array (return int).
8. (5) Multiply two matrices (2-dimensional arrays) together like so (return int[][]):

```
matA = {                matB = {                matC = {
      {1, 2},                 {2, 2},                 {2, 4},
      {4, 1},           X     {2, 2},           =     {8, 2},
}                       }                       }
```

While you are writing these methods, include **tests and output** for them in your main method (5 marks).

Grading Criteria:

Style/submission guidelines: https://gmierzwinski.github.io/bishops/cs321/style_guidelines.html

Comments, Formatting, & Readability	**5 Marks**
Submission Guidelines	**5 Marks**
Testing	**5 Marks**
Program	**20 Marks** **See (X) above**
Total	**35 Marks**