

Lab 02: Arrays

Write a public class called Main and implement class/static methods for each of the following. Please don't use builtin Java methods for these:

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 = {  
    {1, 2},  
    {4, 1}  
}  
  
X  
  
matB = {  
    {2, 2},  
    {2, 2}  
}  
  
=   
  
matC = {  
    {2, 4},  
    {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://gmierzynski.github.io/bishops/cs321/style_guidelines.html

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