

Worksheet #13

CS 1405

Instructor: Garth O. Sorenson

Name: _____

Score: _____

1. Assuming the following definitions:

```
const int ROWS = 3;
const int COLS = 4;
double matrix[ROWS][COLS];
```

- a. How many elements are in the array `matrix`?
- b. Write a statement to display the element in the 2nd row, 3rd column.
- c. How would you refer to the element in the last column of the last row?

2. For the array `matrix` defined in problem 1, do the following:

- a. Write a loop that computes the sum of the elements in row 2 (index 2).
- b. Write a loop that computes the sum of the elements in column 1 (index 1).
- c. Write a loop that displays the element in row 0 (index 0) all on one line with a space in between each.

3. List the storage sequence for the elements of the two-dimensional array `matrix` from problem 1.

4. How many elements in `int scores[5][8][9];`?

5. Write the definition(s) for a multidimensional array used to store the course enrollment data for a school with five campuses and 20 subject areas, and up to ten courses per subject area.