CSCI 162 Homework 1

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Due: Sept 7th @ 11:59PM

1. Declare and allocate a two dimensional int array called table. Make it 6 rows by 3 columns. Then write a loop to set each element to row + col, where row is the row index and col is the column index.

2. What is a data structure? How does it relate to an algorithm?

3. Count the number of product operations and express the count as a function T(n), then express that function in Big-O notation (e.g. T(n) = 3n + 12 = O(n))

4. List the five stages of software development and briefly define what each stage does.

5. Implement a distance method for a Point class. Assume the parameter is another *Point*. It should return the euclidian distance between both Points. **HINT:** a Point contains two double member fields/variables: x and y.