1. (4 points) What is the type of the elements, and how many elements can be stored in each following multi-dimensional array?
   a. `char letters[26][26];`
   b. `bool truthTable[2][2];`
   c. `int inventory[6][10][20];`
   d. `double bigTable[100][10][20][5];`

2. (8 points) We would like a function `RowAverage` that receives a 2-dimensional array of real numbers, the size of the column dimension, and a row index, and returns the average of the values in the given row.
   a. Write an analysis and design for this function.
   b. Write the C++ function definition for your analysis and design.

3. (8 points) We would like a function `ColumnAverage` that receives a 2-dimensional array of real numbers, the size of the row dimension, and a column index, and returns the average of the values in the given column.
   a. Write an analysis and design for this function.
   b. Write the C++ function definition for your analysis and design.

An example for Exercises 2 & 3 is as follows. If a 3x4 array `aGrid` has the following values:

```
1  2  3  4
5  6  7  8
9 10 11 12
```

Then function call `RowAverage(aGrid, 4, 2)` returns 10.5 \([9+10+11+12]/4\) and function call `ColumnAverage(aGrid, 3, 1)` returns 6 \([2+6+10]/3\).