

- |    |  |
|----|--|
| a) | of <code>int</code> with five rows and six columns.                        |
| b) | of <code>String</code> with seven rows and no space allocated for columns. |

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- double[][] table
- double[]
- |   | 0   | 1   | 2   |
|---|-----|-----|-----|
| 0 | 0.0 | 0.0 | 0.0 |
| 1 | 0.0 | 0.0 |     |
| 2 | 0.0 |     |     |

- Write a **method** named `sumRows` that takes a two-dimensional array of `double` named `matrix` and returns a one-dimensional array that is equal in length to the number of rows of `matrix` where each element in the array contains the sum of all the elements in the corresponding row of `matrix`. You can assume the precondition that all row lengths are equal.

**Worksheet: 2D Array Practice 2**

4. Write a **method** named `sumCols` that takes a two-dimensional array of `double` named `matrix` and returns a one-dimensional array that is equal in length to the number of columns of `matrix` where each element in the array contains the sum of all the elements in the corresponding column of `matrix`. You can assume the precondition that there is at least one row in the matrix, and that all row lengths are equal.

5. Write a **method** named `verifyRectangular` that takes a two-dimensional array of `double` named `matrix` and verifies that every row in the two-dimensional array has the same length, returning `true` if it is a rectangular matrix (all row lengths equal), otherwise `false`. You can assume the precondition that there is at least one row in the maxtrix.