**CMSC 203 ASSIGNMENT 5**

**Design Document**

UML Diagram:

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| **TwoDimRaggedArrayUtility** |
| + getAverage(data: double[][]) : double |
| + getColumnTotal(data: double[][], col: int) : double |
| + getHighestInArray(data: double[][]) : double |
| + getHighestInColumn(data: double[][], col: int) : double |
| + getHighestInColumnIndex(data: double[][], col: int) : int |
| + getHighestInRow(data: double[][], row: int) : double |
| + getHighestInRowIndex(data: double[][], row: int) : int |
| + getLowestInArray(data: double[][]) : double |
| + getLowestInColumn(data: double[][], col: int) : double |
| + getLowestInColumnIndex(data: double[][], col: int) : int |
| + getLowestInRow(data: double[][], row: int) : double |
| + getLowestInRowIndex(data: double[][],row: int) : int |
| + getRowTotal(data: double[][], row: int) : double |
| + getTotal(data: double[][]) : double |
| + readFile(file: java.io.File) : double[][] |
| + writeToFile(data: double[][], outputFile: java.io.File) : void |

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| **HolidayBonus** |
| + calculateHolidayBonus(data: double[][], high: double, low: double, other: double) : double[] |
| + calculateTotalHolidayBonus(data: double[][], high: double, low: double, other: double) : double |