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Pseudo Code

CMSC 203

Assignment 5

Class TwoDimRaggedArrayUtility

Create variable called Arr //array

Create variable called total

Create variable called HighElement //highest number

Create variable called lowElement //lowest number

Create method readFile

Pass in file, return two dimensional array

Create method writeToFile

Pass the two dimensional array

Create method getTotal

Return total of elements in array

Create method getAverage

Return average of elements in array

Create method getRowTotal

Add elements, return total in row

Create method getColumnTotal

Add elements, return total in column

Create method getHighsetInRow

Pass array in row index, return highest element

Create method getLowestInRow

Pass array in row index, return lowest element

Create method getHighestInColumn

Pass array in column index, return highest element

Create method getLowestInColumn

Pass array in column index, return lowest element

Create method getHighestInArray

Returns the largest element in array

Create method getLowestInArray

Returns smallest element in array

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | 1.65 4.50 2.36 7.45 3.44 6.23 |  | 1.65 (lowelement) 7.45 (highelement) |  | yes |
| 2 | 1253.65 4.50 2154.36 7532.45 3388.44 |  | 4.50 (lowelement) 7532.45 (highelement) |  | yes |

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| --- |
| UML  Class: TwoDimRaggedArrayUtility |
| Array : double  Total : int  HighElement : int  LowElement : int |
| readFile (file : arr)  writeToFile (arr : file)  getTotal (arr : total)  getAverage ( arr : average)  getRowTotal (arr : total)  getColumnTotal (arr : total)  getHighsetInRow (arr : highelement)  getLowestInRow (arr : lowelement)  getHighestInColumn (arr : highelement)  getLowestInColumn (arr : lowelement)  getHighestInArray (arr : highelement)  getLowestInArray (arr : lowelement) |