District Sales Report

Disney World Retail District 5 Sales Report

	Books	Tsum Tsum	Trading Pins	Star Wars	Lego	Marvel	Total	Holiday Bonus		
Emporium	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
World Traveler	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
Discovery Tra...	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
Merchant of V...	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
Once Upon a ...	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
Tatooine Trad...	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
Total	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$500,000.00	$0.00	$0.00
	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00
	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$50,000.00	$0.00	$0.00

Load Sales Data Exit

```
34      public void testCalculateTotalHolidayBonusA() {
35          assertEquals(26000.0, HolidayBonus.calculateTotalHolidayBonus(dataOne), .001);
```

Console

HolidayBonusGui [Java Application] /Library/Java/JavaVirtualMachines/jdk-18.0.1.1.jdk/Contents/Home/bin/java (Nov 14, 2022, 9:51:15 PM) [pid: 14174]

- JavaFX18
- Movie Lab
- Random
- TwoRagged
  - src
    - (default package)
      - HolidayBonus.java
      - HolidayBonusGFATest.java
      - HolidayBonusGui.java
      - HolidayBonusStudentTest.java
      - TwoDimRaggedArrayUtility.java
      - TwoDimRaggedArrayUtilityGFATest.java
      - TwoDimRaggedArrayUtilityStudentTest.java
  - JRE System Library [Java SE 18.0.1.1 [18.0.1.1]]
  - JUnit 5
  - JavaFX18
- WIFI
  - JRE System Library [Java SE 18.0.1.1 [18.0.1.1]]
  - src
    - (default package)
      - WifiDiagnosis.java

HolidayBonusGui.java - TwoRagged/src

WS - TwoRagged/src/HolidayBonusGFATest.java - Eclipse IDE

Package Explo... | JUnit

Finished after 0.032 seconds

Runs: 2/2 Errors: 0 Failures: 0

- HolidayBonusGFATest [Runner: JUnit 5]
  - testCalculateTotalHolidayBonusA (0.0
  - testCalculateHolidayBonusA (0.000 s

Failure Trace

HolidayBonus... | TwoDimRagged... | TwoDimRagged... | 45

```
1
2  import static org.junit.Assert.*;
7
8  /**
9   * This class represents GFA test cases for a HolidayBonus object.
10  *
11  * @author Farnaz Eivazi
12  * @version 7/13/2022
13  *
14  */
15 public class HolidayBonusGFATest {
16
17     private double[][] dataSet1 = { { 1, 2, 3 }, { 4, 5 }, { 6, 7, 8 } };
18
19     @Before
20     public void setUp() throws Exception {
21     }
22
23     @After
24     public void tearDown() throws Exception {
25     }
26
27     @Test
28     public void testCalculateHolidayBonusA() {
29         try {
30             double[] result = HolidayBonus.calculateHolidayBonus(dataSet1);
```

Console

<terminated> HolidayBonusGFATest [JUnit] /Library/Java/JavaVirtualMachines/jdk-18.0.1.1.jdk/Contents/Home/bin

WS - TwoRagged/src/HolidayBonusStudentTest.java - Eclipse IDE

Package Explo... JUnit

Finished after 0.049 seconds

Runs: 2/2 Errors: 0 Failures: 0

HolidayBonusStudentTest [Runner: JUni
testCalculateTotalHolidayBonusA() (0
testCalculateHolidayBonusA() (0.000

Failure Trace

HolidayBonus... TwoDimRagged... HolidayBonus... »45

```java
1 import static org.junit.Assert.assertEquals;
10
11 class HolidayBonusStudentTest {
12
13     private double[][] dataOne = {{ 3, 4, 3 }, { 1, 3 }, { 4, 10, 9}, {3,2}
14     private double[][] dataTwo = {{2, 3, 2}, {1, 2, 4}, {1, 3}};
15
16     @Test
17     public void testCalculateHolidayBonusA() {
18         try {
19             double[] resultOne = HolidayBonus.calculateHolidayBonus(dataOne
20             double[] resultTwo = HolidayBonus.calculateHolidayBonus(dataTwo
21
22             assertEquals(5000.0, resultOne[0], .001);
23             assertEquals(3000.0, resultOne[1], .001);
24             assertEquals(15000.0, resultOne[2], .001);
25             assertEquals(11000.0, resultTwo[0], .001);
26             assertEquals(7000.0, resultTwo[1], .001);
27             assertEquals(6000.0, resultTwo[2], .001);
28         } catch (Exception e) {
29             fail("This should not have caused an Exception");
30         }
31     }
32
33     @Test
34     public void testCalculateTotalHolidayBonusA() {
```

Console

<terminated> HolidayBonusStudentTest (1) [JUnit] /Library/Java/JavaVirtualMachines/jdk-18.0.1.1.jdk/Contents/Ho

WS - TwoRagged/src/TwoDimRaggedArrayUtility.java - Eclipse IDE

Package Explo... JUnit

Finished after 0.032 seconds

Runs: 1/1 Errors: 0 Failures: 0

TwoDimRaggedArrayUtilityGFATest [Run
testGetRowTotal (0.000 s)

Failure Trace

HolidayBonus... TwoDimRagged... HolidayBonus... »45

```java
341         return highestInArray;
342     }
343     /*
344      * Returns the lowest in specified array
345      * @param double[][]data
346      */
347     public static double getLowestInArray(double[][]data) {
348         //Initialization
349         double currentArray = 0;
350         double lowestInArray = 100000;
351         //Loops that finds lowest in given array
352         for (int a = 0; a < data.length; a++) {
353             for (int b = 0; b < data[a].length; b++) {
354                 currentArray = data[a][b];
355                 //Checks if current array is less than lowest array value
356                 if (currentArray < lowestInArray) {
357                     //Lowest in array now equals current array value
358                     lowestInArray = currentArray;
359                 }
360             }
361         }
362         //Returns the lowest value in specified array
363         return lowestInArray;
364     }
365 }
366
```

Console

<terminated> TwoDimRaggedArrayUtilityGFATest [JUnit] /Library/Java/JavaVirtualMachines/jdk-18.0.1.1.jdk/Conter

WS - TwoRagged/src/TwoDimRaggedArrayUtilityStudentTest.java - Eclipse IDE

Package Explo... JUnit

Finished after 0.06 seconds

Runs: 14/14 Errors: 0 Failures: 0

- TwoDimRaggedArrayUtilityStudentTest
  - testGetLowestInArray() (0.000 s)
  - testGetHighestInRowIndex() (0.000 s)
  - testGetHighestInRow() (0.000 s)
  - testGetTotal() (0.000 s)
  - testGetLowestInRow() (0.000 s)
  - testGetLowestInRowIndex() (0.000 s)
  - testGetAverage() (0.000 s)
  - testGetLowestInColumnIndex() (0.00
  - testGetLowestInColumn() (0.000 s)
  - testGetHighestInColumnIndex() (0.00
  - testGetHighestInColumn() (0.000 s)
  - testGetRowTotal() (0.000 s)
  - testGetColumnTotal() (0.000 s)
  - testGetHighestInArray() (0.000 s)

Failure Trace

TwoDimRagged... | TwoDimRagged... | HolidayBonus... | 45

```java
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.Test;

class TwoDimRaggedArrayUtilityStudentTest {

    private double[][]dataOne = {{2,3,3},{4,3,3}};
    private double[][]dataTwo = {{1,2,1},{1,2},{2,4,5}};

    @Test
    void testGetTotal() {
        assertEquals(18.0, TwoDimRaggedArrayUtility.getTotal(dataOne), .001
        assertEquals(18.0, TwoDimRaggedArrayUtility.getTotal(dataTwo), .001

    }

    @Test
    void testGetAverage() {
        assertEquals(3.0 , TwoDimRaggedArrayUtility.getAverage(dataOne), .0
        assertEquals(2.25 , TwoDimRaggedArrayUtility.getAverage(dataTwo), .
    }

    @Test
    void testGetRowTotal() {
        assertEquals(8.0, TwoDimRaggedArrayUtility.getRowTotal(dataOne, 0),
        assertEquals(4.0, TwoDimRaggedArrayUtility.getRowTotal(dataTwo, 0),
    }
```

Console

```
<terminated> TwoDimRaggedArrayUtilityStudentTest [JUnit] /Library/Java/JavaVirtualMachines/jdk-18.0.1.1.jdk/Co
```

github.com/bushmn/CMSC203_Assignment5

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bushmn Add files via upload 08fedef now 1 commit

HolidayBonus.java	Add files via upload	now
HolidayBonusGFATest.java	Add files via upload	now
HolidayBonusGui.java	Add files via upload	now
HolidayBonusTestStudent.java	Add files via upload	now
TwoDimRaggedArrayUtility.java	Add files via upload	now
TwoDimRaggedArrayUtilityGFATest...	Add files via upload	now
TwoDimRaggedArrayUtilityTestStud...	Add files via upload	now

Add a README with an overview of your project. Add a README

About

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a) What have you learned?

I have learned a lot about how to search through two dimensional arrays to find different low's and high's given a certain row or column. I got comfortable with finding the total values in a two dimensional array along with finding the average and indexes. I also got comfortable with writing more test cases and seeing if my code actually computed the correct answer. I learned how to use methods from TwoDimRaggedArray to calculate different bonus amounts as well as calculating all the bonuses in total. I feel very comfortable with the TwoDimRaggedArray methods which makes me more confident in my coding ability.

b) What did you struggle with?

There were two methods I struggled the most with. The readFile and writeFile methods were very tricky for me. I struggled so much with the readFile that it doesn't even compute the text file's numbers into the GUI. It's a bummer since I feel the rest of my code if fairly correct and would be able to solve the rest of the application process. I tried to reread the book but couldn't find anything that gave me any direction really. I will most likely reach out to you to get a better understanding of how to read and write two dimensional files.

HolidayBonus
+ highestBonus: double
+ lowestBonus: double
+ otherBonus: double
+ HolidayBonus()
+ calculateHolidayBonus (double[][]data): double
+ calculateTotalHolidayBonus (double[][]data): double
TwoDimRaggedArrayUtility
+ readFile (File file): double
+ writeFile (double[][]date, File outputFile): void
+ getTotal (double[][]date): double
+ getAverage (double[][]data): double
+ getRowTotal (double[][]data, int row): double
+ getColumnTotal (double[][]data, int col): double
+ getHighestInRow (double[][]data, int row): double
+ getHighestInRowIndex (double[][]data, int row): double
+ getLowestInRow (double[][]data, int row): double
+getLowestInRowIndex (double[][]data, int row): double
+ getHighestInColumn (double[][]data, int col): double
+getHighestInColumnIndex (double[][]data, int col): double
+ getLowestInColumn (double[][]data, int col): double
+getLowestInColumnIndex (double[][]data, int col): double
+ getHighestInArray (double[][]data): double
+ getLowestInArray (double[][]data): double