UML Diagram

WRAPPER

CSVArray

import java.util.ArrayList; import java.util.Scanner; import java.io.File;

import java.io.FileNotFoundException;

import java.io.BufferedWriter;

import java.io.FileWriter;

import java.io.IOException;

public ArrayList<ArrayList> _data;

private String _filename;

public CSVArray(String fileName)

public String toString()

public void write()

public static Object typePicker()

public void increaseCols()

public void increaseRows()

public int numRows()

public int numCols()

public Object getCell(int x, int y)

public ArrayList getRow(int row)

public ArrayList getCol(int col)

public CSVArray setCell(int x, int y, Object val)

public CSVArray setRow(CSVArray rowVal, int rowPos)

public CSVArray setCol(CSVArray rowVal, int colPos)

public CSVArray addCol(CSVArray col)

public CSVArray addCol(CSVArray col, int pos)

public CSVArray addRow(CSVArray row)

public CSVArray addRow(CSVArray row, int pos)

public CSVArray deleteCell(x,y)

public CSVArray deleteRow(int rowPos)

public CSVArray deleteCol(int colPos)

public ArrayList bubbleSort(ArrayList<Double> data)

public ArrayList sort(int col)

public ArrayList searchCell(String target)

public int searchRow(String target)

public int searchCol(String target)

DRIVER

Woo

import java.util.ArrayList; import java.io.FileNotFoundException; import java.io.IOException; import java.io.File; public static String help() public static String specificHelp(String method) public static boolean invalidFile(String

fileName)

public static String rowString(ArrayList arr)

public static String colString(ArrayList arr)

public static void catchOOB(int numArgs, int argLen)

public static void catchRange(int col, int row, CSVArray csv)

public static void main

catchStringMath(int col, CSVArray csv)

CSVMath

import java.util.ArrayList
public static double sum(int col,
CSVArray csv)
public static ArrayList add(int
col1, int col2, CSVArray csv)
public static ArrayList
subtract(int col1, int col2,
CSVArray csv)
public static ArrayList
multiply(int col1, int col2,
CSVArray csv)
public static ArrayList
multiply(int col1, int col2,
CSVArray csv)
public static ArrayList divide(int
col1, int col2, CSVArray csv)

CSVGeneral

Import java.util.ArrayList
public static String prettyPrint(CSVArray
csv)
private static String formatCell(Object cell,
int maxSize)
private static int maxSize(ArrayList col)

private static int maxSize(int[] maxSizes, Integer numRows) private static String tableBarrier(int[]

private static String tableBarrier(int[
maxSizes, Integer numRows)
private static String colLabel(int[]
maxSizes, Integer numRows)

CSVStat

mport java.util.ArrayList public static double min(int col, CSVArray csv) public static double firstQ(int col. CSVArray csv) public static double median(ArrayList<Object> arr) public static double median(int col, CSVArray csv) bublic static double thirdQ(int col. CSVArray csv) public static double max(int col, CSVArray csv) public static double average(int col, CSVArray csv) public static void statSummary(int col, CSVArray csv) public static double standardDev(int col, CSVArray csv) public static double correlation(int col1, int col2, CSVArray csv)