import java.io.BufferedReader;

import java.io.FileReader;

// Kelvin Kellner

// Mrs. Cooper

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// ICS 4UI Culminating Coding Challenges

// Day 4 - Grocery Savings

// Main Class

public class Day4GrocerySavings

{

// Main Method

public static void main(String[] args)

{

double[] store1 = loadStore("store1.txt");

double[] store2 = loadStore("store2.txt");

double minimum = 0.00;

for(int i=0; i<store1.length; i++)

{

if(store1[i] < store2[i])

minimum += store1[i];

else

minimum += store2[i];

}

System.out.println("\nThe lowest total price is:\n$" + minimum + hangingZero(minimum));

} // Close Main Method

// Load Store Method - loads the items for a store as a double array from a given text file

public static double[] loadStore(String fileName)

{

try

{

// Load the items from the file into an array of doubles, which is then returned

FileReader file = new FileReader(fileName);

BufferedReader read = new BufferedReader(file);

double[] items = new double[Integer.parseInt(read.readLine())];

for(int i=0; i<items.length; i++)

items[i] = Double.parseDouble(read.readLine());

read.close();

return items;

}

catch(Exception e)

{

// Print out an error message

System.out.println("\nError.\nThe store data could not be loaded for \"" + fileName + "\".\nPlease check that the file exists and is named and stored appropriately.\n");

e.printStackTrace();

return new double[0];

}

} // Close Load Store Method

// Hanging Zero Method - Adds an additional zero if there is only one digit in the decimals place (e.g. $2.5 would become $2.50)

public static String hangingZero(double value)

{

if((value\*10.0)%1.0 == 0)

return "0";

else

return "";

} // Close Hanging Zero Method

} // Close Class