Katie Bogan 12/3/15

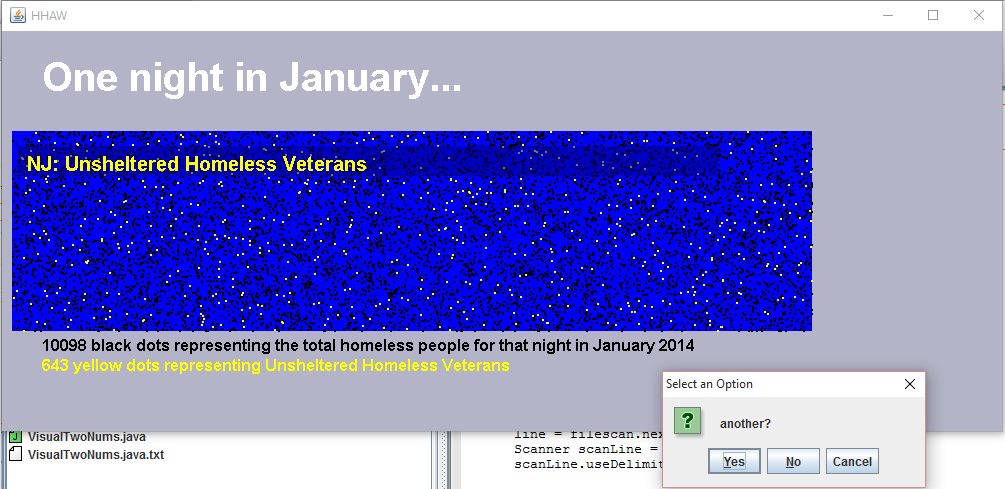
CSC 1051 Project 10

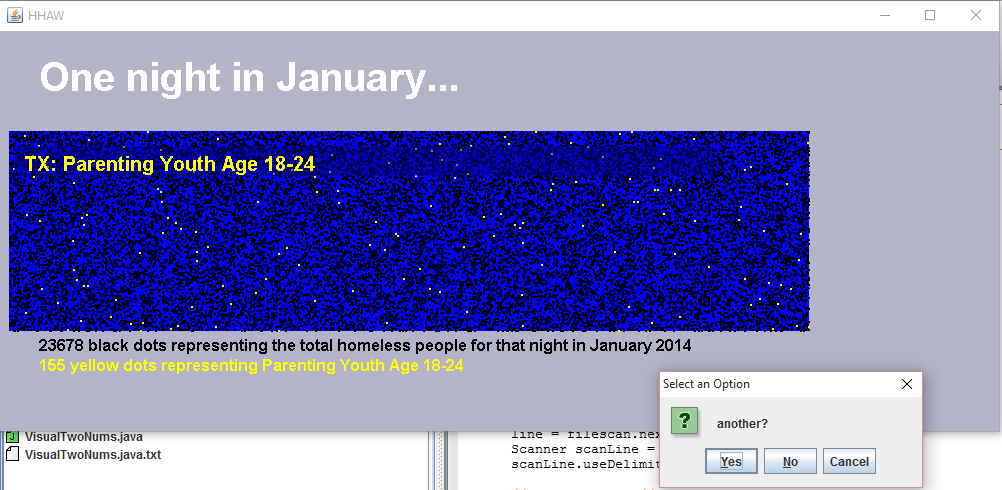
This project was the hardest one of the semester. I worked on this assignment with Jeremy, and the beginning of our project got off to a sour start. Something was wrong with the wifi in Falvey, so we couldn’t access the course website, and therefore couldn’t access any of the material for the project. After fiddling with it for a half hour, we found a way to get the information needed for the assignment. For the duration of the project, my biggest issue was getting the filescan, line information, and delimiters to work properly. We also had some problems declaring our arrays and getting the information to print successfully. Every time we ran the program, we got an error that said “No Such Element”, which none of us had ever seen before. Once we had the state and attributes arrays set, we moved on to the 2D array. With this one, we had a harder time declaring what its values would be and getting the program to know to move from line to line and differentiate from the various strings and arrays. We kept getting the “No Such Element” error, along with our states and attribute arrays beginning to malfunction. After discovering that the problem was set in the scanning functions and the fact that we had a while loop instead of a for loop, we modified the program and it ran smoothly. We did not modify StateStatsPanel or VisualTwoNums at all. Overall, this assignment took us about four hours to complete.

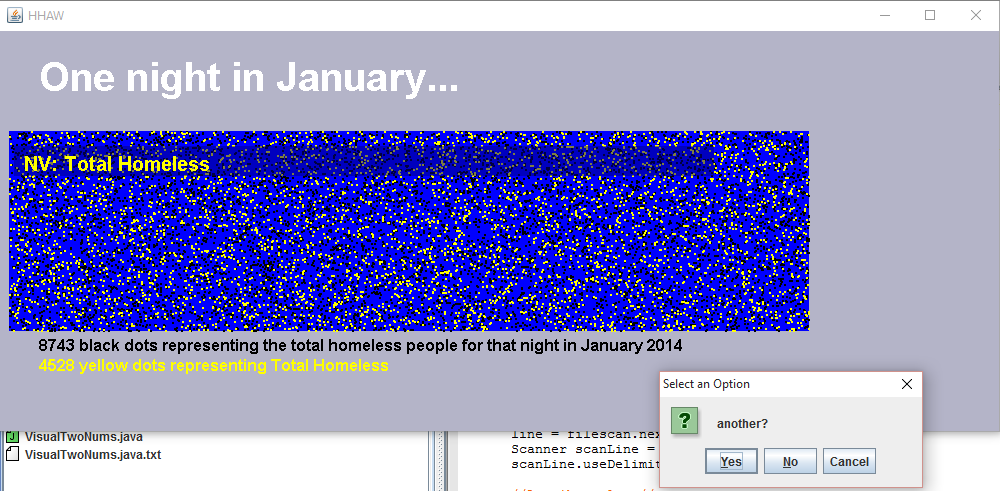
**Source Code:**

//-------------------------------------------------------------------  
// StateStats - Project 10 Author: Katie Bogan  
// December 3, 2015  
//-------------------------------------------------------------------  
import javax.swing.\*;  
import java.io.\*;  
import java.util.Scanner;  
  
public class StateStats  
{  
 public static void main (String[]args) throws IOException  
 {  
 Scanner filescan;  
 File myFile = new File("2015data.txt"); //Importing file//  
 filescan = new Scanner (myFile);  
 String line;  
   
 //Declaring arrays//  
 String[] state = new String[55];  
 String[] attribute = new String[43];  
 int[][] data = new int[55][42];  
   
 line = filescan.nextLine();  
 Scanner scanLine = new Scanner(line);  
 scanLine.useDelimiter("\t");  
   
 //Attribute loop//  
 for(int b = 0; b<attribute.length; b++)  
 {  
 attribute[b] = scanLine.next();  
 //System.out.println(attribute[b]);  
 }  
   
 //State loop//  
 for(int count = 0; count < state.length; count++)  
 {  
 line = filescan.nextLine();  
 scanLine = new Scanner(line);  
 scanLine.useDelimiter("\t");  
   
 state[count] = scanLine.next();  
 //System.out.println(state[count]);  
   
 //Data Loop//  
 for(int k = 0; k < 42; k++)  
 {  
 data[count][k] = scanLine.nextInt();  
 //System.out.println(data[count][k]);  
 }  
 }  
 // display info in a frame  
 JFrame frame = new JFrame ("HHAW");  
 frame.setDefaultCloseOperation (JFrame.EXIT\_ON\_CLOSE);  
  
 do{  
 // get the state  
 String stateSelected = (String) JOptionPane.showInputDialog(null,  
 "Please enter state");  
 // find state index  
 int stateIndex = 0;  
 boolean found = false;  
 while (stateIndex < state.length && !found)  
 if (state[stateIndex].equalsIgnoreCase(stateSelected))  
 found = true;  
 else  
 stateIndex++;  
  
 if (found)  
 {  
 // now get the attribute - use drop-down menu  
 String selected = (String) JOptionPane.showInputDialog(null,  
 "Please select an attribute to display",  
 "Attribute selection",  
 JOptionPane.QUESTION\_MESSAGE,  
 null,  
 attribute,  
 attribute[1]);  
 // find the corresponding index for attribute  
 int col = 1;  
 for (int i = 0; i <attribute.length; i++)  
 if (attribute[i] == selected)  
 col = i;  
  
 // create panel to display info about state and attribute  
 frame.getContentPane().add(new StateStatsPanel(state, attribute, data, stateIndex, col));  
 frame.pack();  
 frame.setVisible(true);  
 }  
 else  
 JOptionPane.showMessageDialog(frame, "Error in input. State not found: " + stateSelected );  
 } while (JOptionPane.showConfirmDialog(null, "another?") == JOptionPane.YES\_OPTION);  
  
 // hide frame and dispose JFrame object to end program  
 frame.setVisible(false);  
 frame.dispose();  
 }  
}

**Screenshots**

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