CS-200: Programming I Fall 2017

Northeastern Illinois University PLTL: Week of 11/21/17

Review

Problem #1

- Write a program that has the class name Problem1 and that has the main method. Leave the main method empty for now.
- Write a method named mostFrequentAverage that takes a 2D array of characters named a, The method returns a double.
- The method should create an array which is the average of the columns in same index then return the most repeated average from the this array. If there is no any repetition, the return value would be 0.0.
- Several sample usages are provided for you below. Use the sample usages in the main method to test your code.

Sample Method Usage	Output
<pre>int[][] a = { {31, 888, 77, 50, 28 },</pre>	0.0
<pre>int[][] b = { {20, 10, 8, 9},</pre>	20.0
<pre>int[][]c = { {1, 2, 3, 4, 5 },</pre>	3.5

Problem #2

- Write a program that has the class name Problem1 and that has the main method. Leave the main method empty for now.
- Write a method named repeatChar that takes two parameters, an integer array arr and a character array ch, having the same length and returns a 2D array.
- The returning 2D arrays is an array of elements in char array that has arr[i] times.

• Several sample usages are provided for you below. Use the sample usages in the main method to test your code (and use the print2DArray method to print out the results of calling the repeatChar method!).

Sample Method Usage	Return Value
<pre>int[] x1 = { 4, 3, 5, 2}; char[] y1 = { 'Q', 'W', 'r', 'b'}; char[][] z1 = repeatChar(x1, y1);</pre>	{ { 'Q', 'Q', 'Q', 'Q' },
<pre>int[] x2 = { 5, 2, 3, 4, 1}; char[] y2 = { '@', '!', '<', 'S', 'm'}; char[][] z2 = repeatChar(x2, y2);</pre>	{ { '@', '@', '@', '@', "@" },