LAB – Java API and String Comparisons

Compare your responses to the Java API worksheet with your pair programming partner and combine them into a single document with both of your names listed at the top. Have your TA grade the worksheet before continuing with the programming part of the lab.

Write a program using pair programming called **StringManipulation.java** that will expect the user to supply two command line arguments, an input file name and an output file name. The file name that will be provided is called **strings.txt** for input and **output.txt** for output. If these files are not provided on the command line, then the program will ask for those files as input.

Read in each line of the file as a different entry into a String array called **inputStrings**. There are 9 lines in your source file. Remove any leading or trailing spaces that might be in each string.

You will then use the following instructions to manipulate the strings to get the desired output(0:

1. Store in a String variable called s1 the first five elements from the first String in inputStrings
2. Store in a String variable called s2 the sixth element from the first String in inputStrings
3. Store in a String variable called s3 the first element from the first String in inputStrings
4. Store in a String variable called s4 the second element through the end of the String from the second string in inputStrings
5. Store in a String variable called s5 the third element through the end of the third String in inputStrings
6. Store in a String variable called s6 second element until the end of the fourth String in inputStrings
7. Store in a String variable called s7 the last element from the fifth String in inputStrings
8. Store in a String variable called s8 the first element from the eighth String in inputStrings
9. Store in a String variable called s9 the first six elements from the ninth String in inputStrings
10. Store in a String variable called s10 the eighth element through the eleventh element from the sixth String in inputStrings
11. Store in a String variable called s11 the fourth element through the sixth element from the sixth String in inputStrings
12. Store in a String variable called s12 the first element through the third element from the seventh String in inputStrings
13. Store in a String variable called s13 the sixth and seventh elements from the seventh String in inputStrings
14. Store in a String variable called s14 the first element from the second String in inputStrings
15. Store in a String variable called s15 the sixth element from the eighth String in inputStrings
16. Store in a String variable called s16 the eighteenth and nineteenth elements from the ninth String in inputStrings
17. Store in an int variable called i17 the location of the first ‘H’ in the first String in inputStrings
18. Store in an int variable called i18 the location of the first ‘a’ in the second String in inputStrings

Using the instructions below, you will output the results to a file called, **output.txt**.

1. Create a while loop to output i15 50 times in one output line.
2. Output three blank lines
3. Output the following to one line: s1 + s2 + s3 + s4 + s5 + s6 + s7
4. Output the following to one line: 3 spaces + s8 + s2 + s10 + s2 + s11
5. Output the following to one line: 3 spaces + s9 + s2 + s12
6. Output the following to one line: 85 spaces + s14 + s13 + s15 + s16
7. Output three blank lines
8. Create a while loop to output i16 50 times

Demo your file **StringManipulation.java** for your lab TA to earn points for this lab.