# **File Input**

Sample files for the following exercises have been provided, but your program should be able to work with ANY file as long as it has the correct name and its data has been formatted properly.

(The files I test your programs with might not be the same as the ones I provide you, so don’t assume it should ONLY work with the sample file!)

1. **PrintLines.java**: Write a program that read each line in a file “line.txt”, then output them to the standard output.
2. **AddNumbers.java**: Write a program that reads the number on each line in a file “numbers.txt”, then outputs the sum to the standard output.  
     
   **HINT:** Read each line as a String, then parse it to an int. (You will have to catch a number format exception.)
3. **PrintAllChar.java**: Write a program that reads the text in the file “allChar.txt”, then prints one character at a time on separate lines, but skipping any spaces, new line characters (‘\n’) or carriage return characters (‘\r’).
4. **ReverseLines.java:** In the text file “reverse.txt”, the first line contains an integer which indicates the number of lines that follow. Your program should read this first line so it knows how many lines will follow. It should then read each of the remaining lines and then output them in reverse order. (hint: use an array)  
     
   **HINT:** Use an array, where the size is set by the first line of the file.  
   Use Scanner to read your file.