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/**
 * Logical lines of code counter for Java programs.
 *
 * For COMP2100 in 2007 Homework 5.
 *
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 * @version 2007.1
 */

import java.io.*;
import java.util.StringTokenizer;

public class LineCount {

    /**
     * Loop through the command line arguments
     * each argument is expected to be the name of a file.
     * Count the lines in each file and print that count and filename
     * then if there was more than file, print a summary line:
     * the total count and number of files.
     */
    public static void main(String[] args) {

        int i;
        int lines = 0;
        int files = 0;
        int totalLines = 0;
        BufferedReader input = null;

        for (i=0; i<args.length; i++) {

            File inputFile = new File(args[i]);
            if (!inputFile.exists()) {
                System.out.println("ERROR: couldn't open " + args[i]);
            } else {
                try {
                    input = new BufferedReader(new FileReader(inputFile));
                } catch (FileNotFoundException e) {
                    System.out.println("cannot open " + args[i] + ". This should never happen!");
                }
                lines = lineCount(input);
                System.out.println(lines + " " + args[i]);
                totalLines += lines;
                files++;
            }
        }

        if (files > 1) {
            System.out.println();
            System.out.println(files + " files, " +
                totalLines + " lines of code");
        }
    }

    /**
     * The number of logical lines of code in the input
     */

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public static int lineCount(BufferedReader input) {
    int count = 0;
    try {
        String line = input.readLine();
        while (line != null) {
            if (!isNothing(line)) {
                count++;
            }
            line = input.readLine();
        }
    } catch (IOException e) {
        System.out.println("Oops, an IO error!");
        System.exit(1);
    }
    return count;
}

/**
 * If we remove all white space, braces, stars and slashes,
 * is there nothing left?
 */
public static boolean isNothing(String line) {
    line = line.replaceAll("\\{|", "");
    line = line.replaceAll("\\}|", "");
    line = line.replaceAll("/|", "");
    line = line.replaceAll("\\*|", "");
    line = line.trim();
    // DEBUG if (line.length() !=0) System.out.println(line);
    return line.length() == 0;
}

/**
 * count the number of words in a string
 * a "word" is defined as what a StringTokenizer recognizes as
 a token
 */
static public int wordCount(String s) {
    StringTokenizer st = new StringTokenizer(s);
    int count = 0;
    while (st.hasMoreTokens()) {
        count++;
        st.nextToken();
    }
    return count;
}
}

```