import java.io.\*;

import java.util.\*;

public class LogFileAnalyzer {

// Method to analyze log file and write results to the output file

public static void analyzeLogFile(String inputFile, String outputFile, List<String> keywords) {

Map<String, Integer> keywordCounts = new HashMap<>();

// Initialize keyword counts to 0

for (String keyword : keywords) {

keywordCounts.put(keyword, 0);

}

// Reading the input file and processing each line

try (BufferedReader reader = new BufferedReader(new FileReader(inputFile))) {

String line;

while ((line = reader.readLine()) != null) {

// Check each keyword in the line

for (String keyword : keywords) {

if (line.contains(keyword)) {

// Increment the count for the matched keyword

keywordCounts.put(keyword, keywordCounts.get(keyword) + 1);

}

}

}

} catch (IOException e) {

e.printStackTrace();

}

// Writing the analysis results to the output file

try (BufferedWriter writer = new BufferedWriter(new FileWriter(outputFile))) {

writer.write("Log File Analysis Report\n");

writer.write("---------------------------\n");

for (Map.Entry<String, Integer> entry : keywordCounts.entrySet()) {

writer.write(entry.getKey() + ": " + entry.getValue() + " occurrences\n");

}

System.out.println("Log file analysis complete. Results written to: " + outputFile);

} catch (IOException e) {

e.printStackTrace();

}

}

public static void main(String[] args) {

// Define the input and output file paths

String inputFile = "input\_log.txt";

String outputFile = "output\_report.txt";

// Define the keywords to search for

List<String> keywords = Arrays.asList("ERROR", "WARNING");

// Analyze the log file

analyzeLogFile(inputFile, outputFile, keywords);

}

}