



# Homework 2

Deadline: 2015/03/27 09:00

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# Problem Description

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- Write a program that reads data from a text file and does string processing.
- The file name is given from the keyboard (console input).
- If the file has **odd** number of lines, change the **first** occurrence of "hate" to "love".
- If the file has **even** number of lines, change the **last** occurrence of "hate" to "love".
- Change **all** the occurrence of "java" (case-insensitive) to "Java Software Development". For example:
  - Change "jaVa" to "Java Software Development"
  - Change "JAVASCRIPT" to "Java Software DevelopmentSCRIPT"
- Show the result in the console.

# Sample Input and Output

1

File name	file1.txt
File content	I hate java and C++.
Output	I love Java Software Development and C++.

# Sample Input and Output

2

File name	file2.txt
File content	I hate C++. I hate you because you hate JAVA.
Output	I hate C++. I hate you because you love Java Software Development.

# Scoring Criteria

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- Correctness: 80%

- Note that TA will test your program with more than one test case.

You can read data from a text file	40%
The result of processing a file which has odd number of lines is correct	20%
The result of processing a file which has even number of lines is correct	20%

- Coding standards: 20%

- Plagiarism is strictly forbidden

# Submission

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- Please upload your source code to Moodle
- The file name should be {STUDENT\_ID}\_hw2.java
- Deadline: 2015/03/27 09:00
- No late submission is accepted

If you have any problem about this homework,  
please email to: p96024029@mail.ncku.edu.tw (林昆輝)

# Hints

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- <http://docs.oracle.com/javase/8/docs/api/java/util/Scanner.html>
- <http://docs.oracle.com/javase/8/docs/api/java/lang/String.html>
- <http://docs.oracle.com/javase/8/docs/api/java/lang/StringBuilder.html>

You can use the following code snippet to read a full text file.

```
Scanner scanner = new Scanner(...);  
while (scanner.hasNext()) {  
    ...  
}
```