

國立清華大學 電機工程學系 一〇二學年度第二學期

EE-2410 資料結構 Data Structure

Homework #4

Due on May 26, 2014

請上助教網站上傳包含【原始碼及執行結果】的綜合 PDF file

助教網頁: <http://www.ee.nthu.edu.tw/ee241000>

1. (學期總成績 10%) Write a C++ program that is able to record all the words in a file into a **dictionary** so that efficient keyword lookup can be performed subsequently.

(Command format): `%dictionary <word file> <keyword to be looked up>`

(Example command): `%dictionary picasso who`

(Input word file): http://www.ee.nthu.edu.tw/~syhuang/data_structure/picasso.txt

(Output): Report its **number of repetitions of the given keyword in the word file**.

(Hint): You need to skip delimiter characters such as <space character> <comma>, etc., when parsing the word file. You can also use class *map* in STL to ease your coding.

STL reference: STL 網頁: <http://www.cppreference.com/wiki/stl/start>

繳交資料: Combine all your following documents into a single PDF file for submission to the TA web page. On top of the combined PDF file should be a **cover page** with your 系所，中英文姓名，學號等資訊。

- (a) All your **source codes** (C or C++ file).
- (b) Show the **execution trace** of your program.