National Tsing Hua University
Electrical Engineering Dept.,
Fall Semester, 2019
EE-2310 計算機程式設計 (Introduction to Programming)
Homework #7 (3 points)
Due on Jan. 2, 2020 @ the Lab Session
Late Homeworks will NOT be accepted !

1. Write a C++ program to **find out the top 10 words in terms of number of appearances in a given file, named "*picasso.txt*"**. The data file is to be downloaded from iLMS system (http://lms.nthu.edu.tw). (Hint: The most efficient way to handle this problem is to build a **word dictionary** using class **map** in STL (Standard Template Library) if you know how to do it. On the other hand, without using **map**, it is still possible to solve this problem using only class **vector** in STL.)
(Demonstrate it to one of your classmates, and then tell one of our TAs that you are done with this homework, and then you can get the 3 score points).

(Results to be reported)
Total no. of lines: 11
The total number of words in "picasso.txt": 674
The 0-th frequent word is (the) with no. of appearances (87)
The 1-th frequent word is (of) with no. of appearances (61)
The 2-th frequent word is (and) with no. of appearances (48)
The 3-th frequent word is (in) with no. of appearances (45)
The 4-th frequent word is (a) with no. of appearances (38)
The 5-th frequent word is (to) with no. of appearances (28)
The 6-th frequent word is (Picasso) with no. of appearances (18)
The 7-th frequent word is (was) with no. of appearances (17)
The 8-th frequent word is (by) with no. of appearances (16)
The 9-th frequent word is (is) with no. of appearances (15)