DSP HW3 Report 資工四 b02902122 王聲融

Environment

Linux Ubuntu 14.04 64-bit desktop

How to "compile"

To compile mydisambig.cpp, a 'Makefile' is provided for compiling.
Only need to type 'make' on the command line.
For 'mapping', python2.7 is used so just need to execute by python2.7 mapping.py

How to "execute"

./mydisambig [testing data] [lm file] [map file] python2.7 mapping.py

What I have done

mapping.py:

Using each individual character to map char to char; and map the zhuyin to all the characters whose 聲母 contains that zhuyin.

(I took advantage of python's data structure and its easiness of use to do mapping in a less complex way.)

mydisambig.cpp:

Read 'map' and store it in map<string, vector<string> in C++. Use Bigram prob from TA's given language model to run Viterbi algorithm in order to find the answer, which is simply the path having the highest possibility.