

LING 570 – HW7

Q2

Table 1: Tagging Accuracy

Expt ID	Lamda 1	Lamda 2	Lamda 3	Tagging Accuracy
1	1.0	0	0	68.3952633728052%
2	0.5	0.5	0	68.3952633728052%
3	0.2	0.8	0	68.3952633728052%
4	0.1	0.1	0.8	68.3952633728052%
5	0.2	0.3	0.5	68.3952633728052%

Additional note to Fei and David:

I had spent more than 50 hours, including 3 sleepless nights on this homework. During which, I had also re-written the entire Viterbi program over three times. Yet no matter how hard I had tried, I am still not able to achieve the desired tagging accuracy. While I understood the Viterbi algorithm rather well, my biggest problem was with writing the program to implement it.

I suspect that a minor tweak to the program is all it takes but I do not know which part I should be looking at. The running speed is also quite slow, about 10 minutes per HMM. Given more time, I would have tried to optimize it so that the running time is faster.

I hope the extended amount of effort placed into this assignment would be considered in the grading. Thank you as always.

End of HW7 – submitted by Wee Teck Tan

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Course Name: LING 570