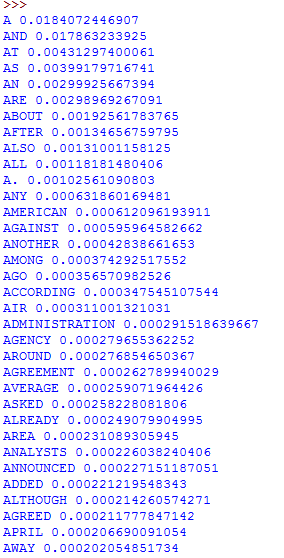
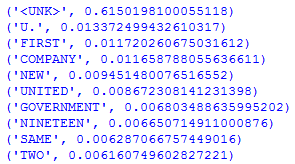
Qing Huang

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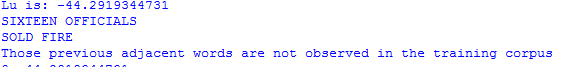
4.2 Statistical language modeling

 a)

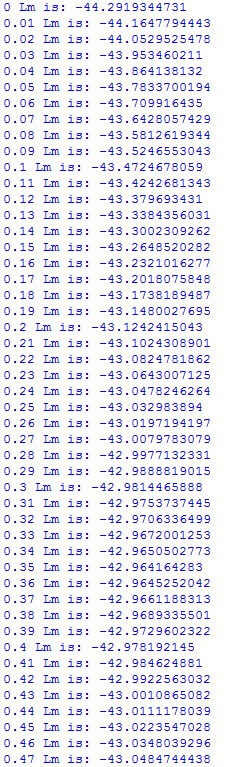
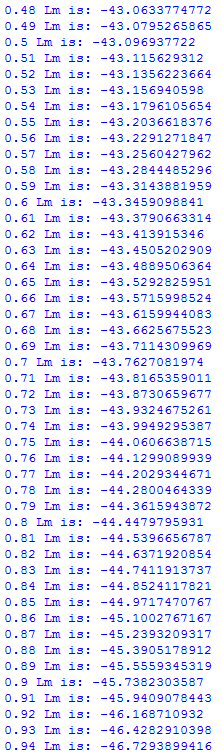
b)

c)

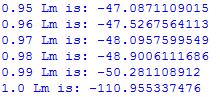
So in this case, the log-likelihoods under bigram is bigger than under unigram

d)

These will casue the log-likelihood from the bigram model become to 0, since the numerator is 0.



e)



Plot: