Applied probability models for CS: Exercise 3

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## Part 1

We decided the threshold for stopping criteria in the EM algorithm to be **10.** In scale of the large numbers of the log-likelihood, 10 is a very small number. We tested many thresholds and there weren’t big differences.

## Part 2

Log-likelihood and mean perplexity plots until convergence (28 iterations):

A graph with a line drawn on it

Description automatically generated A graph with a line

Description automatically generated

## Part 3