CSCI 5832 Spring 2004 Quiz 1

Name: _____

On my honor, as a University of Colorado student, I have neither given nor received unauthorized assistance on this work._____

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1.   True or False: A finite state automaton can be used to characterize a formal language that consists of an infinite number of strings. **(5 Points)**

2.   The plural of potato is potatoes. Describe the general technique for using finite-state machines for morphological analysis that is suggested by this and other related facts. **(10 Points)**

3.   Discuss an N-gram solution to the problem of correcting real-word spelling errors**. (10 Points)**

4.   True or False: When applied to the problem of smoothing bigrams, the Witten-Bell method redistributes part of the probability mass from the non-zero counts to the zero-counts in a manner that is conditioned on the bigram prefixes**. (5 Points)**