Programming Assignment #3 Due on 4/10/2014

- 1. Given two files with English text, you would like to determine if one can be obtained from the other by changing the word order. Give a hashing algorithm for the problem. Please use open addressing (linear probing and double hashing) to resolve the collision. Your algorithm should take expected O(n) time (under the simple uniform hashing assumption), where n is the number of words in both files. Assume that each word is at most 32 characters long.
- (a)Please write a program in C++ or C implementing the algorithm above. Your program should take two files called doc1 and doc2 as input and return true or false. You will be provided with test files on web. You may assume that the input contains only lower case letters and spaces.
- (b) Please compare expected number of probes between linear probing and double hashing.