Rohit Tikyani Assignment 3 Indexer ReadMe

For the Indexer, I made use of the previous assignments (Tokenizer and Generic Sorting) as they were helpful in creating this indexer. One difference is that the tokenizer is adjusted for files rather than strings. The data structure used is a sorted list-- it stores entries in records with respect to the number of occurrences of each token. The indexer.c is what reads the file/directory (if valid) and inserts 1 word at a time. After going through all the directories and creating the list, the output file is created with the specified format. In terms of big O - it iterates through all input files (n) and tokenizes files with (m) tokens, and since writing the file is in linear time O(1)--the whole process is $O(m^*n)$.