Ben Joye – Lab 11 Plan

My plan is to find the query in a 3 step process. The first step is to search the file names for the query. If this doesn’t find it, then the second step is a search for an exact match using an implementation of a common string matching algorithm, the Boyer-Moore algorithm. If this does not find anything, the second step is to find a similar string. There is an existing algorithm called Levenshtein Distance, that calculates the difference between two strings. This algorithm calculates the number of insertions deletions and substitutions it takes to transform one string to the other. This will always return a string no matter how similar it is, so after this step, the program is finished.

1. File name linear search
2. Boyer-Moore search through files
3. Levenshtein Distance through files