

If I vary the size of the hash table, that would mean that less collisions are probably going to take place. That also means that runtime would be longer due to the fact that we would have to look up more indexes than before. Increasing the bloom filter size would decrease the number of collisions as well, so that means less false positives.

The move to the front rule is needed in this program. When a key is looked up, the chances of it being looked up again is much higher. If we moved it to the front of the list, that would mean that the next time it is looked up, the seek length is much less. Taking the bible for example, words such as “God” and other holy words will definitely be repeated. That means that the chances of the word being used again is much higher, so the move to front technique is time efficient.