Most notably hashing with a smaller base (in this case 1) and having a base a similar value to the size of the list will increase the time taken to fully hash the file. This is because there will be more collisions, resulting in a greater time complexity when having to iteratively find an empty element, rather than hashing it directly to an empty element. Complexity will be O(1) unless the base is either close to 1 or to the size of the hash table, in which case it'll approach a complexity of O(N) where N is the number of elements inserted.