Exercise 6

Write the program, which counts the number of occurrences of each word in a text and outputs the 100 most frequent words.

1. The program should take two command line arguments: the name of the input file and the name of the output file. The input file contains the text. Each line of the output file should contain the number of occurrences of the word and the word itself. The words should be listed in decreasing order of the number of occurrences. If words have the same number of occurrences, they should be listed in lexicographic order.
2. A word is a sequence of characters such that for each character C (`isalpha(C)` is true) OR ((C is the apostrophe) AND (C is not at the first position)).
3. The skip list data structure implemented in the exercise 5 should be utilized to count the number of occurrences. The word hash value should be used as the key. The function to compute hashes is provided.