

## Spring 2012 Lab Assignment 11

You are to implement a spell checker using a `HashSet`.

You will find a file `dictionary.txt` on the website. This is an open source dictionary file of 80368 English words in alphabetical order from `aa` to `zyzzzyvas`. You are to implement a dictionary by reading this file into a `HashSet` structure for later lookup. The file name should be passed as a parameter from the main method to the method that builds the hash table.

You should then read the `ztest` file and check the spellings of the words in the dictionary.

It should be clear that there is actually a lot of tedious detail that could (and should) go into a real spell checker. You don't have to implement all of that detail. However, you should use the `replace` and `toLowerCase` methods of the `String` class to get rid of all commas and periods and change the input words of `ztest` to be all lower case (since the dictionary is all lower case). You might also think that changing commas and periods to blank spaces, then applying the `trim` method to get rid of leading and trailing blanks would be a good way of doing this much cleanup of the input words. Even with this, there are some common words that turn out not to be in this dictionary.