Spell Checker (Michael Sloma)

Extra Credit

- Table doubling with rehashing (when load factor reached)
- Nonstandard dictionary (can handle space and new line delineated)
- · GU
- Check a misspelled word against a list of common misspellings.
- "Real Time" spell checker when enter is pressed in output field
- Show table works when full or close to full (table doubling so it doesn't)
- · Optimized input to use substantially less memory (uses on average half a line of memory per line on given dictionary)

Usage

To use, specify a path to a dictionary and suggestion mapping list, then specify the delineation for the dictionary file ("" or "\n"). Then press the Load button to load in the files to initialize the spell checker. At this point you can put text into the Output field, and when Enter is pressed, the spell checker will scan the input and mark misspelled words with *'s. It will then suggest changes if it can match the misspelled word to a commonly misspelled word. These will be displayed in the Suggestions field

Example

Output Field

This is a test document.

How many dogs can fly?

Do you think this realy works?

This is a test document. How many dogs can fly? Do you think this *realy* works?

Suggestions Field

realy:

Notice

The Remaps value shown is the total number of collisions, including those during the linear probing. There is also code for reading from a document included in the Dictionary class.