

For this Project I create two Hash Tables. One that was hashed using Quadratic Probing and the other was using Chaining.

How I implemented this was I used a linked list with pointers that would point to the next position in the linked list. This would allow for multiple words to be added within a single link. I created insert methods and search methods to the linked list. For quadratic probing I implemented similar elements but created a function called isPrime to return true or false based on the size of the hash table being a prime number. For my output statement:
This was my outcome.

```
File opened
Time to Construct HashTable1: 90004996
Time to Spell check Hashtable1: 411432
The Number of misspelled words in HashTable1: 378
Time to Construct HashTable2: 66337889
Time to Spell Check HashTable2: 428242
The Number of misspelled words in HashTable2: 378
Program ended with exit code: 0
```

The reason the words do not match the result from the project description is I could not seem to figure out how to effectively create an if statement that would read in the lower case letters. I added some lines of code to show where my thoughts were going, but I kept on getting errors.

For some reason I am getting an error that won't allow me to compile on the server. When you run the program outside of the p2 command and just run it in an IDE, the system compiles.