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inlab6.pdf
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My implementation produced the correct results for the given test files. There were differences in the output, as finding the words was not in order each time. I made use of the diff and -w command on my terminal and was able to get the same order and find that the results matched.

With and without the -O2, there was a slight difference in the time of the search. However, my device is old and slow, so sometimes, the time can be slower than usual. For 250x250 the time was 49.06 seconds – I should probably try to find a better hash function- while for 300x300 the time was 6.626 seconds. I ran on my MacBook pro on my terminal. The running speed of my word search (big-Theta) is rows times columns times words.

A problem I encountered was all the STL implementations. I left out an include for algorithms and my code wouldn't compile. I didn't know where the error was coming from so I had to go through my entire code and when I couldn't find what was wrong I looked at each of my lines and see if I implemented each one. A function called find() for list was not implemented properly so I was able to fix the problem and compile my code.

The shell scripting writing was pretty challenging for me personally. I think the hardest part was getting the syntax correct, how we can't have spaces after the equal sign and things like that. I think shell scripts are very useful and very efficient. In times where the same thing has to be done multiple times on bash, I think one can save a lot of time through shell scripting.