The hardest part of this project was setting it up and making sure everything ran correctly. I was running into a lot of trouble trying to read in the text file of words into the code but eventually I was able to make it work, The other somewhat difficult thing was making sure that the output of the program exactly matched what the g31 test cases wanted it to be because even minute differences such as word capitalization and spacing would change whether the test case was right or wrong.

**Pseudocode-**

**Main Function**

Load the list of words from the file.

If no words are loaded, print error message and end program.

Ask user how many rounds they want to play.

If the number of rounds is less than 1, print error message and end program.

Initialize total score, minimum score, and maximum score.

Iterate for number of rounds:

Randomly select index of the secret word.

Print length of secret word.

Call run one round function and give it wordlist, number of words, and secret word index.

If score given by run one round func is invalid, end program

Update total score, minimum score, and maximum score using the score from the round.

Print current average score, minimum score, and maximum score.

**Run One Round Function**

Checks input parameters.

If the input is invalid, return -1 (error)

Initialize guesses variable

Run until the secret word is guessed:

Ask the user for a trial word.

Validate the trial word (correct length, lowercase letters, exists in the word list).

Send error and retry

Initialize planetcount and starcount

Iterate through secret word

If char in trial word matches the same index char in secret word, add 1 to starcount and go to next trial word

Also replace char with nonalpha character if starcount is added to

Iterate through trial word

If char in trial word matches a char in secret word, add 1 to planetcount and go to next trial word

Also replace char with nonalpha character if planetcount is added to

Add 1 to guesses

If the starcount matches the length of secret word:

Return the number of guesses.

Otherwise, print star and planet count