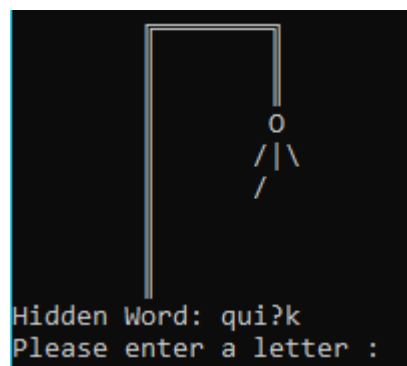


TDQC

Hangman

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2. Project Write-Up

2.1 Initial Design Plans

The steps I initially took to handle this project was a “hit the ground running” technique. I started with the user and file input, built the main play game function, then started on getting them to work together and checking for errors as the flow goes along. The last step of the base requirements was to work with the statistics that were saved as well as saving them when the game was over.

I did the suggested features in the order I presumed to be the hardest to the easiest that I was going to do. The flow of those went from the non-alphabetical characters, into the additional statistics, and finally into the hangman display.

2.2 What didn't work

I had attempted to do the UTF-8 suggested feature as well, but I could not quickly understand how to parse variable length characters and implement that feature without significantly more work than the other suggested features. That branch was abandoned and never pushed to Gitlab.

Another quirk I had found was with the hangman display, my original implementation was a switch statement that had each value of the number of guesses mapped out with the corresponding output inside the statement. This implementation wound up being well over 100 lines of code alone. It was rewritten into a for loop that contains several if statements that reduced the lines in half.

2.3 What went well

I was quick to be able to parse user input and get valid submissions as well as use the same function to parse file input. Being able to reuse the function for multiple purposes made development much easier in the long run.

I was also much more comfortable with using pointers and tried my best to do most of my functions as pass by reference.

2.4 Conclusion

This hangman project was one of the more intensive projects I have encountered in this course so far. I underestimated the difficulty when the requirements sheet was handed out but quickly realized it was going to be a challenge. I believe the product I have created meets the intent and satisfies all the necessary requirements.