

Write Up

Code Related Changes:

- In my close function, I had a condition to check when the file was closed to write the last write to the file, but I did not check if the write was a valid write and did not account for just opening and closing the file. I added a condition to check if there was a valid write before writing to the file.
- I had messed up the indentation for my if statements to check for negative index or writing other than strings so that exception was never raised. I updated the indentation to make sure the exceptions were raised.
- I was not updating the length of the file correctly in the cases where an undo happened or writing in the middle of the file. I added another variable, `file_length`, to hold the previous file length in case of an undo and I only updated the length if the length of the data and offset is greater than the length of the file.

Exception Related Changes:

- I did not raise `FileClosedError` when trying to write to a closed file so I added that check.
- I was not raising a `SeekPastEndOfFileError` when writing once, undoing, and then trying to write past the end of the file because I did not update my condition for whether or not trying to undo was valid for a valid write.
- I was not checking for exceptions in the correct order of precedence as listed in the `RepyV2API`. I reordered my conditions in order to do this.

Lock Related Changes:

- I was not releasing locks when exceptions were raised, so I added statements for those.
- I did not have locks on the close function, so I added a lock at the beginning of the function and released it at the end.