

ISP Assignment 2.3

The vulnerabilities I have found and tried fixing them are:

- Instead of writing everything straight in a permanent file like I did in the previous code, I've added two variables:
 1. Which stores the recently written content before it is permanently stored in the file.
 2. Which lets us know the size of the file. Because everything typed within the writeat method is stored permanently, there was a vulnerability in the old code.
- The data written wrongly can't be restored by calling undo repeatedly after multiple writeats. It means that only the appropriate parts of the data are erased. The situation can be solved by the updated code.
- I didn't check to see if the offset number was -ve before writing the data in the writeat or whether or not the file is opened... Thus, in the updated code, I am truly examining the offset value. Nobody is permitted to write in the offset's -ve position.
- The earlier version of the code had difficulty handling the test case's simple opening and closing statements a few times, but the newer one can handle this in every scenario.