

I had 2 vulnerabilities in my code, one of which I did accidentally.

1. **VULNERABILITY:** I accidentally suppressed `writeln()` exceptions when the file was closed using a close flag in the code.

FIX: I removed the external check for the close flag to fix this bug.

2. **VULNERABILITY:** The second vulnerability was related to threading. I forgot to create locks and release them in case of multithreading. As a user can run multiple threads and if all of them write in the same file, the code will break.

FIX: To fix this vulnerability I created a lock object when we are opening the file. Now during the write and undo operation I am first acquiring the lock and then performing my operations. The lock is then released whether we get an exception or not using `try, finally`. When the file is closed the locks are again acquired to perform any pending undo and then they are released.

I fixed the two vulnerabilities in my code as described above to pass all the test cases and fix any possible vulnerabilities as well.