

# Testing Process and Validation

While evaluating the functionality and reliability of our code, our team used the *selfcomp.c* file for testing purposes. The detailed output of this testing is comprehensively documented in the *selfcompTest.txt* and *terminalPrintedEnvVar.txt* files.

Before initiating the actual testing, we took care to set up certain conditions in our system particularly printing the environment variables before executing *selfcomp*. This variable plays a crucial role in the functioning of our program. Following the execution of our code, we examined that the environment variables were the same, confirming the stability and accuracy of our testing environment.

To further validate the robustness of our code, we analysed the code fingerprint, specifically the MD5 hash value '*8b7588b30498654be2626aac62ef37a3*'. This unique identifier was cross-referenced with the expected value outlined in our *selfcomp.c* file.

It is important to note that, due to time constraints, we were unable to extend our testing to the client environment. Nevertheless, we maintain a high degree of confidence in the effectiveness of our exploit, grounded in the thorough testing carried out on our internal system using the *selfcomp*. The results obtained from this testing process form a solid foundation for our belief that our solution would adeptly identify and retrieves the password as intended.