

**Team Number:****Proposal:**

Security is a **huge** issue in these modern times. You see computers everywhere you go. However, every time you use them, you need to enter these plaintext letters called “passwords”. Passwords us humans enter are first stored as plaintext, and then that plaintext is hashed via a hashing algorithm. For example, your password is *2leg!tP@ssW0rd* . The hash algorithm then encrypts that plaintext into incomprehensible computer language such as 71bf15910e6ea4ebe849c3c9ea32ae9c861d85f0 (this is what 2leg!tP@ssW0rd looks like when used with SHA-1, or otherwise known as **Secure Hash Algorithm-1**). Why are the current methods of security in computers insufficient? The current methods are insufficient because there are not multiple layers of encryption when storing a password. What my team and I plan on doing is making a program in C language . We want to make plaintext more secure by using multiple levels of encryption than a single layer of protection like SHA-1 or similar.

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