Random Test

The random functions are quite straightforward. inputChar() returns a random integer in the range 32-126 cast as a char. I chose this range because it is the set of standard printable ASCII characters.

I initially had inputString return a string of length between 3-8 characters, with its contents determined by inputChar(), but the odds of getting the “reset” string were too low (1/7 \* 94^5 = about 1/1,000,000,000), so I changed it to a string fixed at a length of 5 composed of random lowercase alphabetical characters (1/26^5 = 1/11,000,000).

I also had the output saved to a log file instead of printed to stdout, which increases the speed of the program significantly. This can result in a massive file being created if the string is not found within a few million iterations.

