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CS362 – Random\_Testing\_Quiz

I started this assignment by reading the source file and understanding exactly what was required on this assignment. I then went about reminding myself how to generate random numbers/letters in C. I have been riding my programs in Python so my C has gotten rusty very quickly!

A quick search reminded me how to create the Random lowercase letters using the ASCII codes. I was able to get the functions written fairly quickly, but ran into problems with how the inputString() function returned the pointer string. Back in the testme() the string of letters was junk.

It took me a few hours of fiddling with the code and checking against other versions online to realize that I had declared my char string array incorrectly in inputString(). I needed to declare the char string array as a “static” char string array.

After correcting that mistake the functions worked perfectly. It took 11,006,574 tries to get “reset” as a random word.

The code works like this. InputChar starts with a random number between zero and 94, then adds 32 to get a random character. That range includes all the required characters to advance ‘tcCount’ in testme(). InputString uses a slightly different method to generate the random string of lowercase letters. First it creates a static char string of six characters. Then the random function grabs a random number between zero and 26 and that number is added to the char ‘a’ to get a lowercase letter from a-z. After using a for-loop to do this 5 times, I put a NULL terminator in the last element of the string, transfer the string into a pointer char variable, and return the pointer char variable to testme().

testme() then does what it does.