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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.