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Random Testing (RT) Quiz

Outline How I Developed My Random Tester and How It Works

The inputChar function declares a char randomChar to hold a single random character generated from the predefined pool of characters in "[({ ax})]" and returns it to testme function. If the character is '[' and the state is 0, then the state is increased to 1. The while true loop inside the testme function loops again until the exit(200) statement to break out of the loop. Once "[" was returned already by inputChar(), all future "[" returned will not have state == 0 so state will no longer be incremented (As with the other characters). All the if statements for c needs to be true at least once.

The inputString function first declares a char string array to hold five characters (since we need to hold "reset"). A for loop was used to loop five times to generate a character string of five characters. Every iteration of the loop, a random character is generated from the predefined pool of characters in "reset" and placed in index i of the randomAlphabet character array. When the for loop is done, we return the randomAlphabet character string of random characters back to testme function. The test me function's if statement tests to see if randomAlphabet contains "reset". If this last if statement is true the program satisfied all if statements and print the error message.