Holly Switzer

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Quiz 2

Random Testing

char inputChar()

{

char a = ((rand() % 95) + 32);

return a;

}

For this function, I used the randomization of the alphabet, numbers and punctuation so that the test would continue to increase its state. The tests were actually at a state 9 very quickly.

char \*inputString()

{

static char str[6];

for (int i = 0; i<5; i++){

str[i] = ((rand() % 26) + 97);

}

str[5] = '\0';

return str;

}

This function was built in the similar fashion that inputChar() was. I used randomization again to build the string but within the lowercase letters. The string was hard coded to a length of 6, so that it would only have 5 letters max, which is needed to spell “reset.”

The tests would usually take a few minutes with 1884102 iterations being my lowest and 19763580 being the highest. I could change my functions to only include the required letters or punctuation to speed up the results.