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CS 362
2/2/18
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.