

Samuel Bernstein

bernstes@oregonstate.edu

February 3, 2019

Random Testing Quiz

The preliminary goal for the random testing quiz is to reach state nine through the matching of single random characters. This can be done fairly quickly by limiting the random characters in the pool to only those which will help progress the testme function to the ninth state. Once the ninth state is reached the goal becomes more complex as the function must string together five characters in a defined sequence in order to reach the terminal error code.

The code for the random character generation utilizes random indexing into the string of characters found within the testme function. This method makes the selection of random characters much simpler and quicker than having to select from the entire ASCII library. Generating the random string is accomplished by calling the character input function five times, which results in a string of random characters ending with a null terminator. The testme function then runs until the random string matches with the specifications, which generally takes thousands more attempts than the initial goal of reaching state nine.