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Random Testing Quiz

Random Character

I created a string that contains all of the necessary characters necessary to generate random strings that will give thorough coverage:

```
" abcdefghijklmnopqrstuvwxyz1234567890!@#$%^&*()[]{}';:,<>/?"\0"
```

Then I generate a random number, mod the length of the string, and return the character at that index.

Random String

This function generates a random number between 0 and 6 for the length of the string. Next, it calls the random character function that number of times and adds each character to a string. Finally, the string is returned.

This strategy gets almost complete branch coverage (minus the string being “reset”) in less than 1000 iterations pretty consistently.