

DSC 430: Python Programming
Assignment 0701: War and Random Numbers

Find on the D2L a text version of War and Peace by Leo Tolstoy. You will use it to create a pseudo random number generator. The PRNG should be an object:

```
prng = WarAndPeacePseudoRandomNumberGenerator()
```

class

inti
random
close

Alternatively, you should be able to pass a seed when you create the object:

loop 32

```
prng = WarAndPeacePseudoRandomNumberGenerator(12345)
```

set seed

Then, you should be able to generate pseudo random numbers [0,1):

```
r = prng.random()
```

Record a three minute video in which you run the code. Then, present your code. Specifically, answer the following questions:

- Explain how your pseudo random numbers are produced.
- Generate 10,000 pseudo random numbers. What is the min, max, and mean? Does that make sense?

seek(0)

Submission: Submit a single .py file containing all the code to the D2L. Do not zip or archive the file. Your code must include comments at the top including your name, date, video link, and the honor statement, "I have not given or received any unauthorized assistance on this assignment." Each function must include a docstring and be commented appropriately.