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EE 381 Spring 2020 Project 1
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Description: This is the code for a pseudorandom number generator, RNG.
It will output a uniform distribution of numbers in the set [0,1).
def main():
   def RNG():
       r = [] #List of random numbers.
       # Constants
      N = 10000 #The norm.
       A = 4857 #The adder.
      M = 8601 #The multiplier.
       # ------
       #Get seed from clock.
       import time
       S = time.time() - time.process_time()
       for i in range(25):
          S = (M * S + A) % N #RNG Formula
          v = S / N \#Numebrs in [0,1)
          r.append(v)
       return r
   def die(d):
       import math
       print("Die Roll")
       for k in range(25):
          die = math.floor(6 * d[k] + 1)
          die = str(die)
          print(die, end = " ")
   def coin(c):
       import math
       print("\n")
       print("Coin Toss")
       for k in range(25):
          coin = math.floor(2 * c[k])
          if coin == 0:
              print("T", end = " ")
          else:
              print("H", end = " ")
   r = RNG()
   die(r)
   coin(r)
main()
```