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# DiceRolls.py
""" Ilustrates the use of random.randint by simulating a
dice
game. """
from random import randint as randi
# Repeatedly roll 3 dice and
use the outcomes to estimate
# the probability that the 3 throws are each different.
the number of trials and count keeps track of the number
# of trials where the 3 dice have
distinct values
N = 1000000
count = 0
print '\n
           Throws
                       Prob Estimate'
print
'----'
for k in range(1,N+1):
    # The k-th trial
   d1 =
randi(1,6)
    d2 = randi(1,6)
    d3 = randi(1,6)
    if d1!=d2 and d2!=d3 and d3!=d1:
    count +=1
    if k%100000==0:
       # Look at the emerging probability estimate every
100000 throws
      print ' %8d
                        %8.6f ' % (k,float(count)/float(k))
```