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#!/usr/bin/env Python
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## Exam 1 Code: Dice Roll
import random
z = [0] * 11
11, 12}\n"
print "\tExpected Probability:\n\tZ(2) = 1/36\n\tZ(3) =
2/36\n\t Z(4) = 3/36\n\t Z(5) = 4/36\n\t Z(6) = 5/36\n\t Z(7) =
6/36 \ln tZ(8) = 5/36 \ln tZ(9) = 4/36 \ln tZ(10) = 3/36 \ln tZ(11) =
2/36\n\t Z(12) = 1/36\n''
for i in range(10000):
   X = random_randint(1,6)
   Y = random.randint(1,6)
   Z = X + Y
   if (Z == 2):
       z[0] += 1
   if (Z == 3):
       z[1] += 1
   if (Z == 4):
       z[2] += 1
   if (Z == 5):
       z[3] += 1
   if (Z == 6):
       z[4] += 1
   if (Z == 7):
       z[5] += 1
   if (Z == 8):
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z[6] += 1
    if (Z == 9):
        z[7] += 1
    if (Z == 10):
        z[8] += 1
    if (Z == 11):
        z[9] += 1
    if (Z == 12):
        z[10] += 1
print "Actual Result:"
print "Z(2) = %.0f/10000 = %.2f " %(z[0], (z[0]/
float(10000))*100)
print "Z(3) = %.0f/10000 = %.2f " %(z[1], (z[1])/
float(10000))*100)
print "Z(4) = %.0f/10000 = %.2f " %(z[2], (z[2]/
float(10000))*100)
print "Z(5) = %.0f/10000 = %.2f " %(z[3], (z[3]/
float(10000))*100)
print "Z(6) = %.0f/10000 = %.2f " %(z[4], (z[4]/
float(10000))*100)
print "Z(7) = %.0f/10000 = %.2f " %(z[5], (z[5]/
float(10000))*100)
print "Z(8) = %.0f/10000 = %.2f " %(z[6], (z[6]/
float(10000))*100)
print "Z(9) = %.0f/10000 = %.2f " %(z[7], (z[7]/
float(10000))*100)
print "Z(10) = %.0f/10000 = %.2f " %(z[8], (z[8]/
float(10000))*100)
print "Z(11) = %.0f/10000 = %.2f " %(z[9], (z[9]/
float(10000))*100)
print "Z(12) = %.0f/10000 = %.2f" %(Z[10], (Z[10])
float(10000))*100)
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