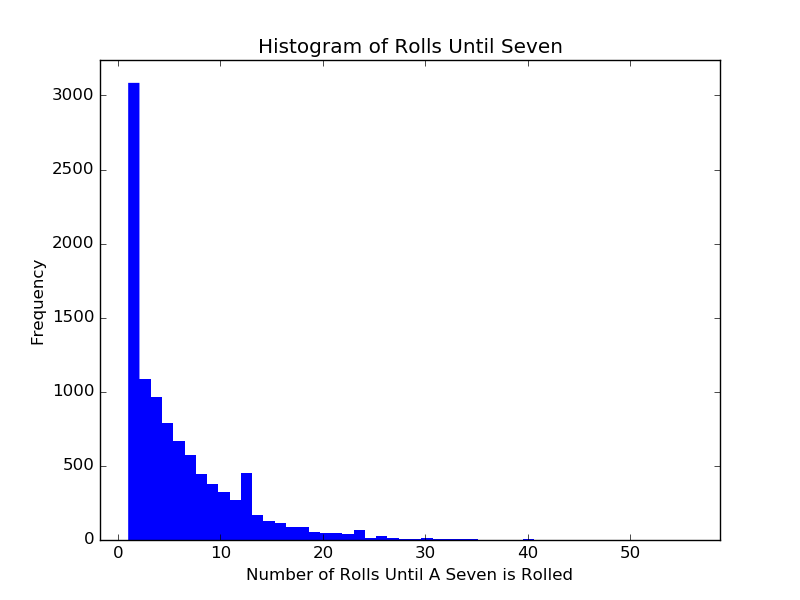
Francisco Fierro

EE 380

Lab 1

1.)



import matplotlib.pyplot as plt

import numpy as np

die1 = 0

die2 = 0

A = np.zeros(10000)

numRolls = 0

for i in range(10000):

numRolls = 0

die1 = 0

die2 = 0

while(die1 + die2 != 7):

die1 = np.random.randint(1,7)

die2 = np.random.randint(1,7)

numRolls += 1

A[i] = numRolls

plt.hist(A, bins = 50)

plt.title("Histogram of Rolls Until Seven")

plt.xlabel("Number of Rolls Until A Seven is Rolled")

plt.ylabel("Frequency")

plt.show()

2.) Choose any 50 to be Heads. All others must be Tails. So:

0.0796

3.) 13 kinds of cards; choose one of each suit. 1 card of any other kind; choose 1 of any suit