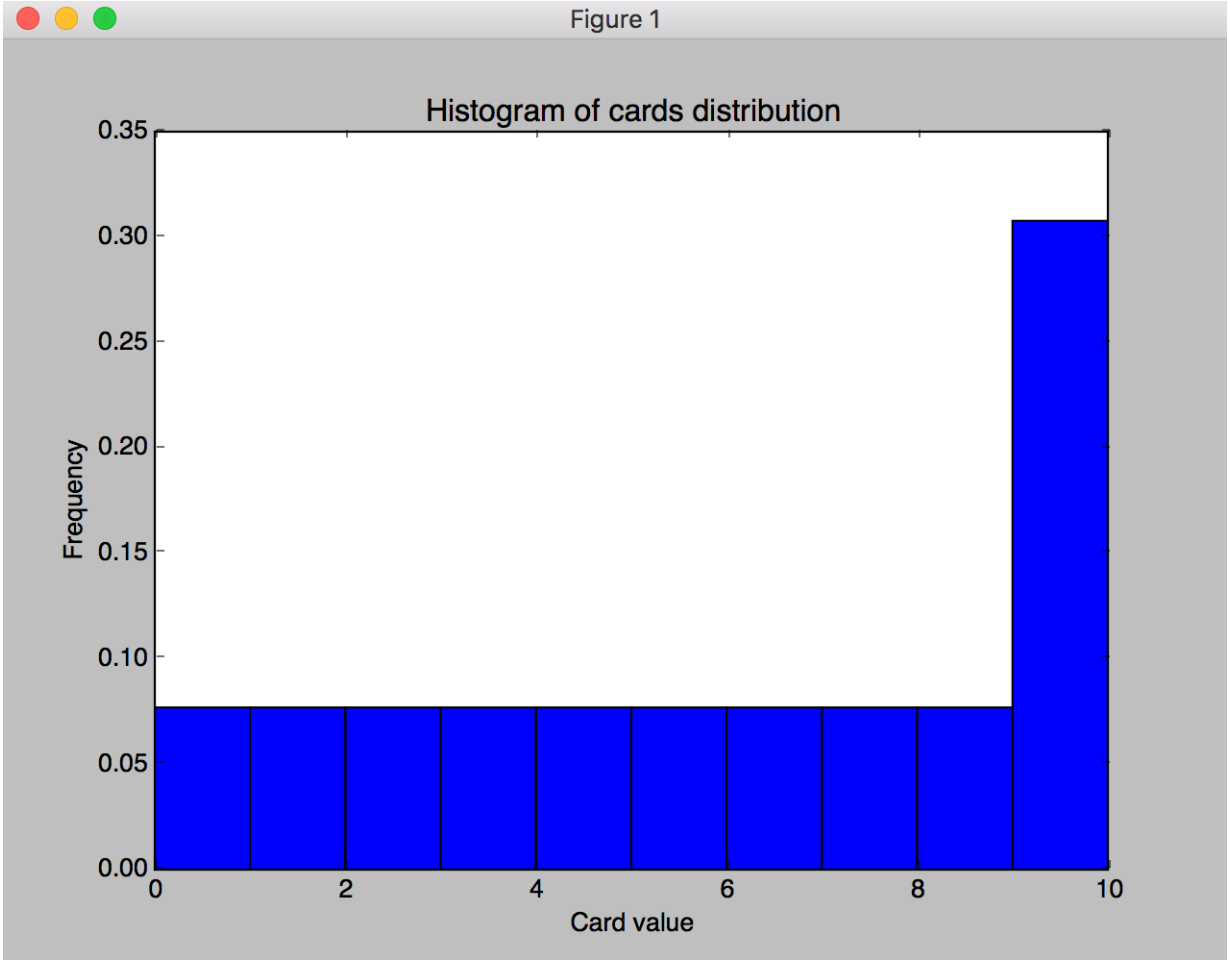
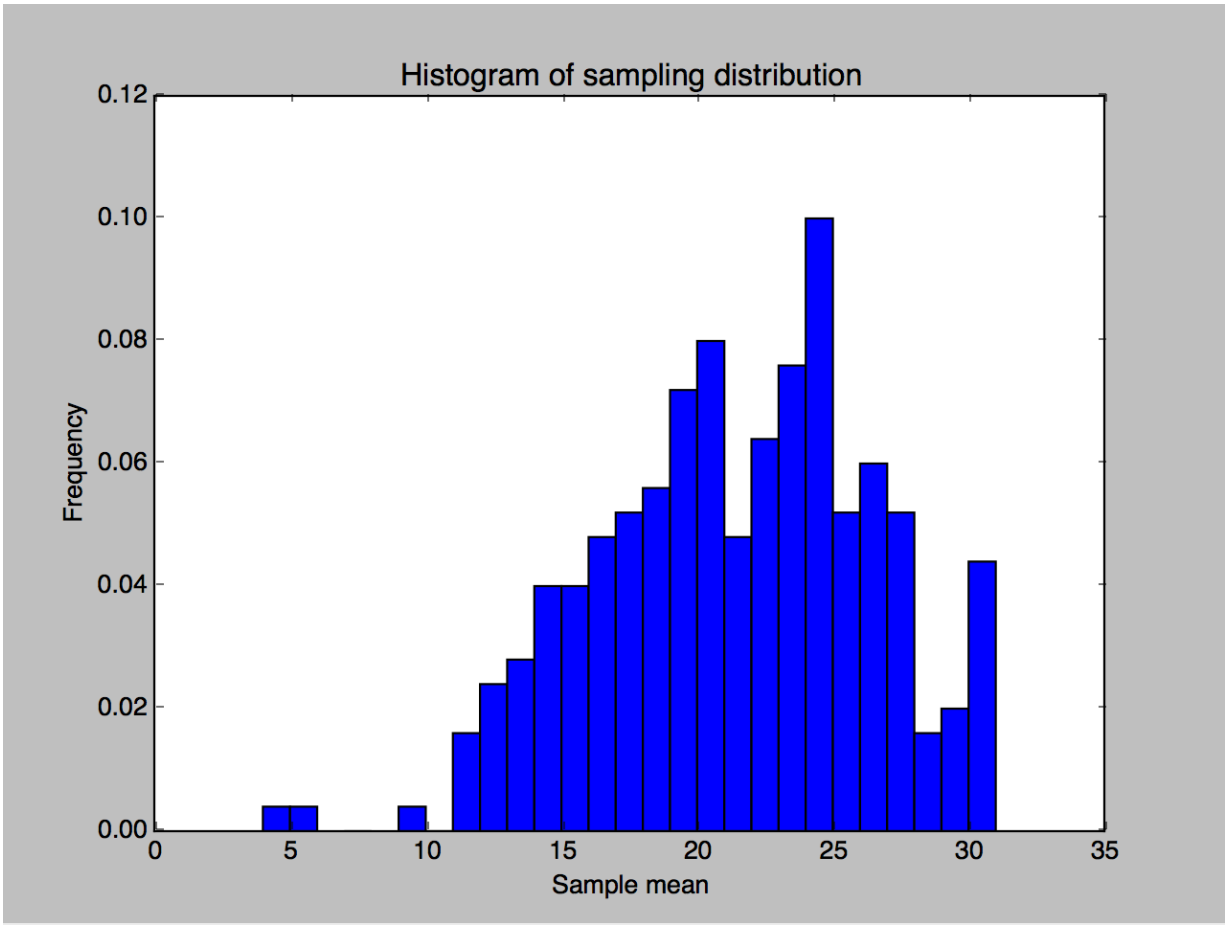
Histogram looks like the following for the cards (1(pointing Ace) to 10 numbers, and J,K,Q all are referring to the same value 10.

Mean of population : 6.53846153846
Mode of the population : 10
Median of the population : 7.0
Variance of the population : 9.94082840237
Standard deviation of population: 3.15290792799



Sample size: 3
Mean of sampling distribution : 20.116
Mode of sampling distribution : 19
Median of the sampling distribution : 20.0
Variance of the sampling distribution : 29.438544
Standard deviation of sampling distribution: 5.42572981266
Standard deviation of sampling distribution - using the formula: 1.82033224095


Histogram of sampling distribution
Frequency
Sample mean
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
5
10
15
20
25
30
35