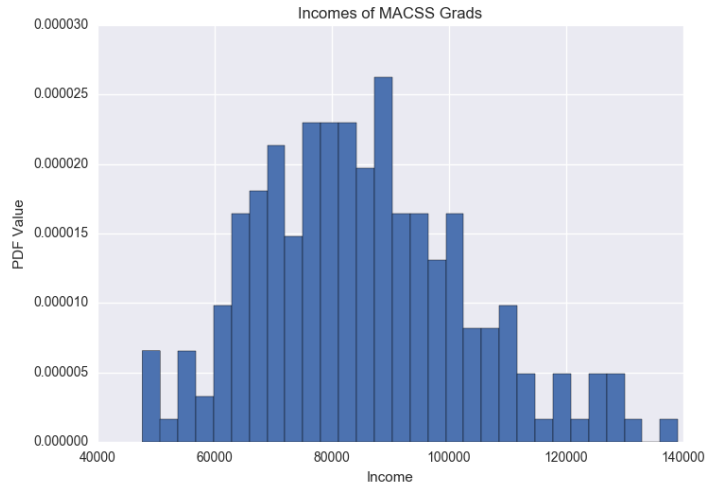**Problem Set #4**
MACSS 3000, Prof. Evans
Benjamin Rothschild

Problem 1

Part A
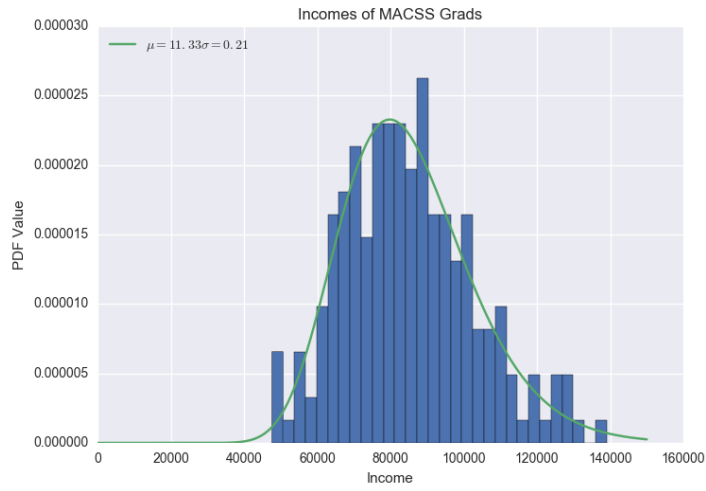

Part B

The result of my `LN_pdf(np.array([[200.0, 270.0], [180.0, 195.5]]))` is

0.0019079	0.00123533
0.00217547	0.0019646

Part C

Criterion value is: 9.82687615e-14 at $\mu = 11.33$ and $\sigma = 0.21$.

	model	data
μ	85276.81	85276.82
σ	17992.54	17992.54

Part D

Criterion value is: 0.04772766 at $\mu = 11.32$ and $\sigma = 0.21$.

	model	data
μ	84949.77	85276.82
σ	18009.17	17992.54
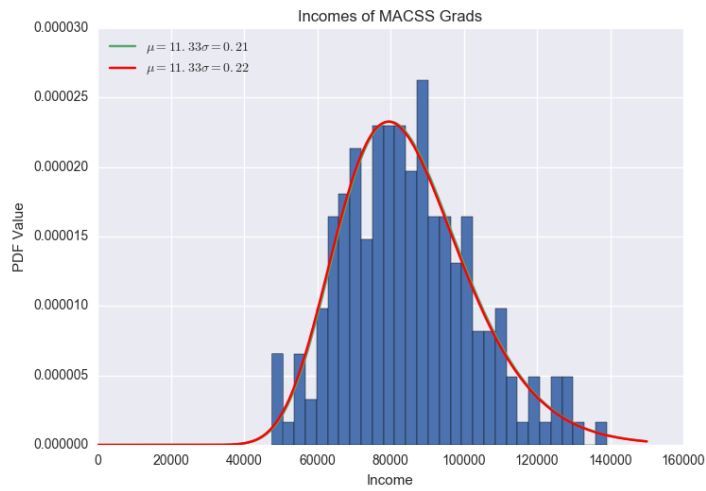
The results from the two SMM methods are very similar.