Project1 - P4

The folder contains a python file, P4.py and the sampled anonymized edge list, anonymizededges.csv which is the output from Problem1.

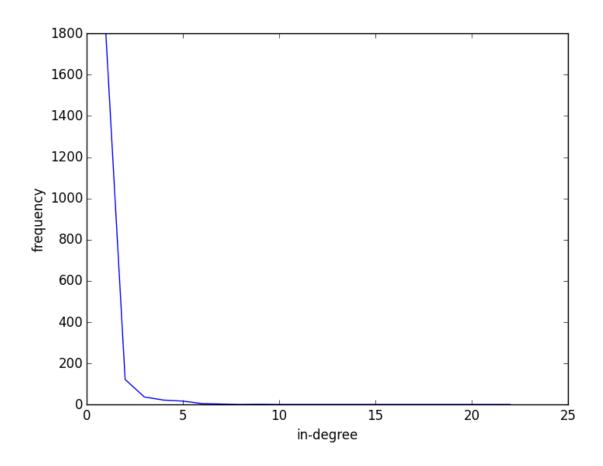
P4.py takes the path of the anonymizededges.csv as a command line argument. Use the following commands to execute the script in a command prompt or terminal:

python P4.py anonymizededges.csv

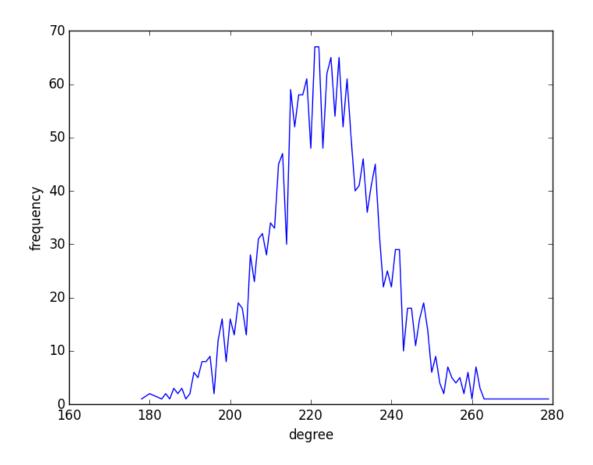
Output:

Degree Distribution

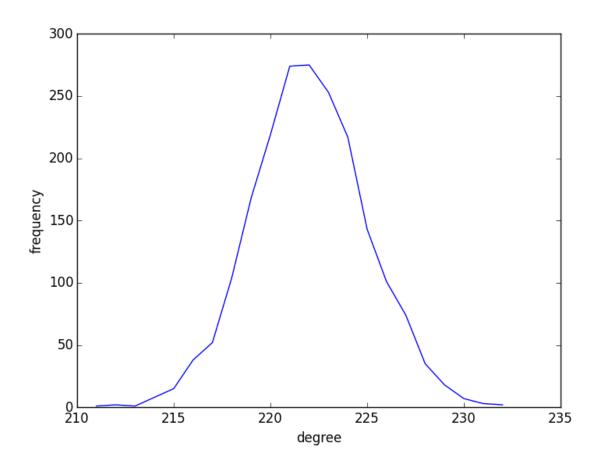
Original Graph



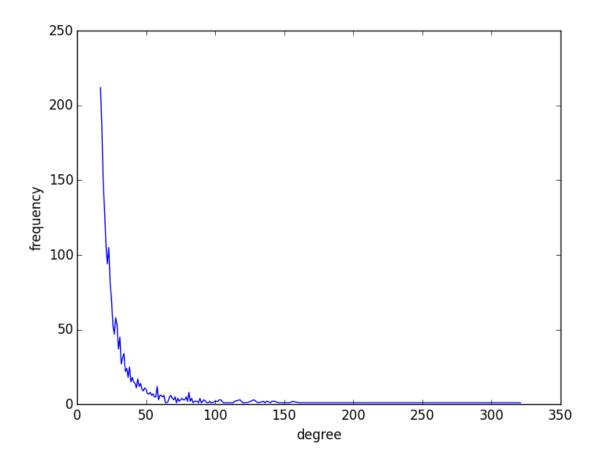
Random Graph



Small World Model



Preferential Attachment Model



Comparison:

	Real-world	Random	Small World	Preferential
	graphs	Graphs	Model	Attachment
Degree	Power-Law	Poisson	Poisson	Power-Law
Distribution				
Clustering	0.00363919069741	0.111370963526	0.656356167806	0.0501319688695
Coefficient				
Average Path	3.97074507998	1.40576374813	1.97448001407	3.74873279997
Length				

