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Project1 – P2

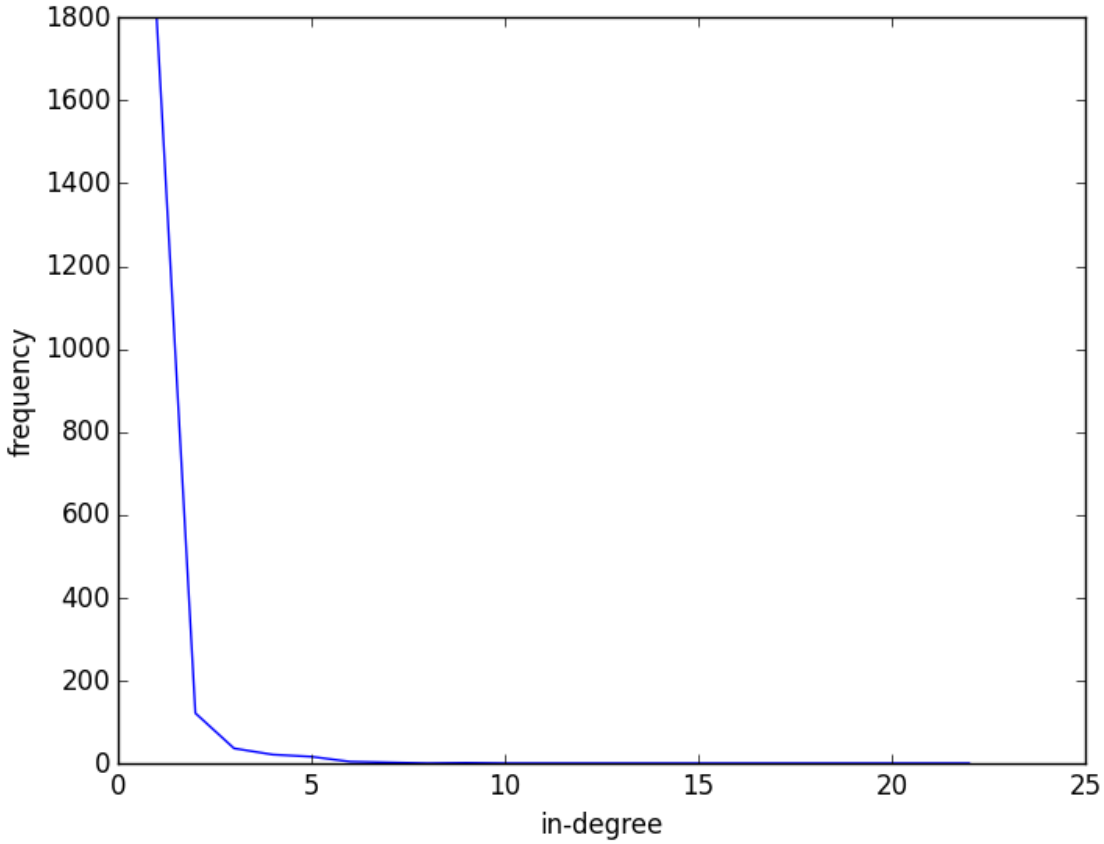
The folder contains a python file, P2.py and the sampled anonymized edge list, anonymizededges.csv which is the output from Problem1.

P2.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 P2.py anonymizededges.csv

Results:

- In degree distribution



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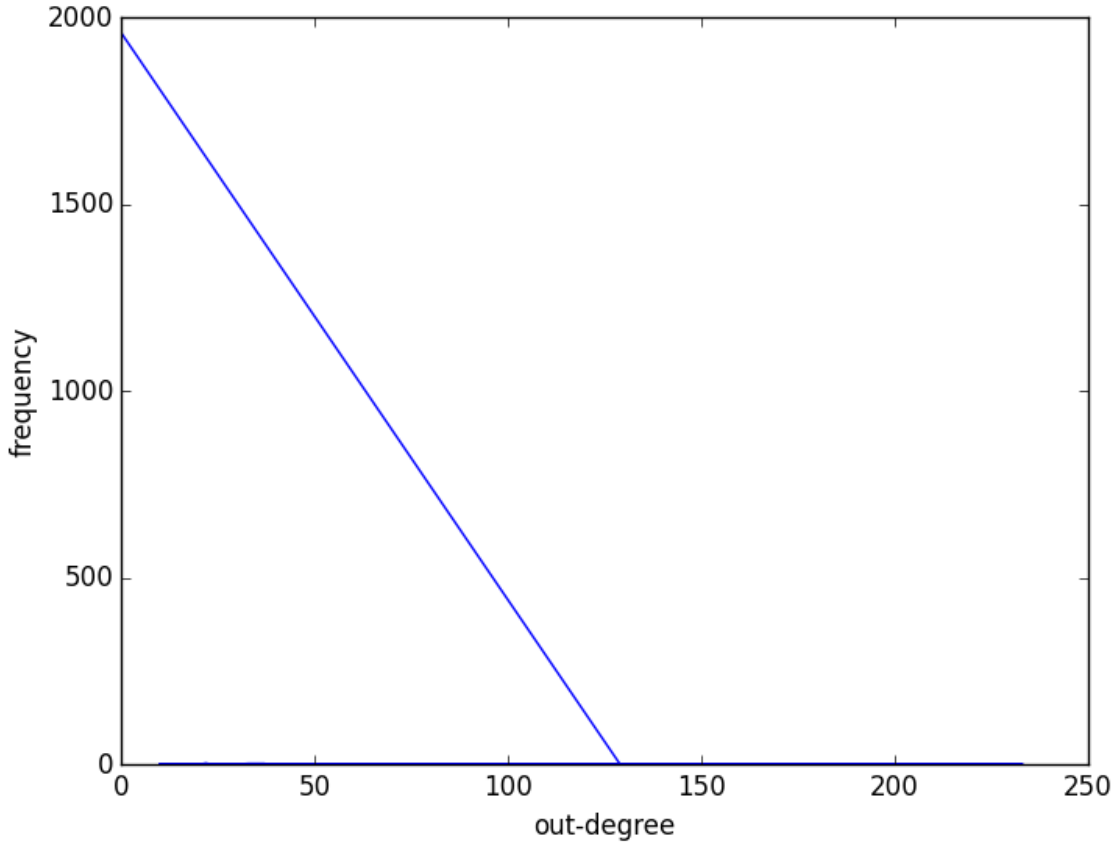
- Out degree distribution



- In-degree exponent – 6.60537806412
- Out-degree exponent – 3.59791399433
- Number of bridges – 1778
- Number of 3 cycle – 404
- Graph Diameter – 5

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- * Remove x% of edges randomly then:
  Compute the size |S| of the largest connected component
  Do for x from 1 to 100. Plot x versus |S|.
  If you have a directed graph, make it undirected