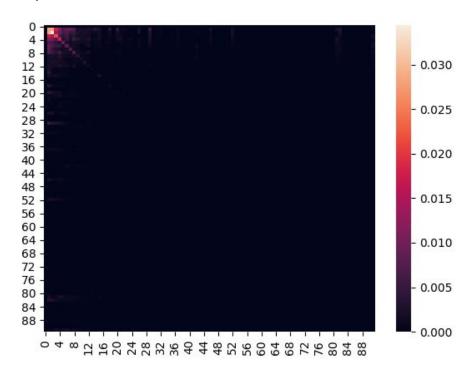
Homework - 9 RA:265674

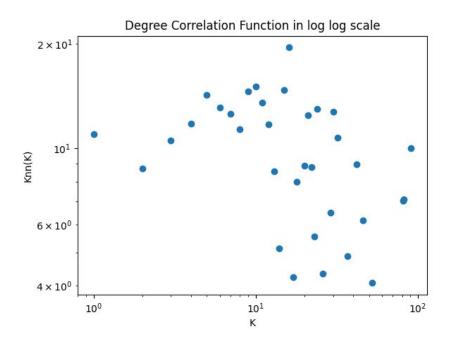
Student: Paulo Junio Reis Rodrigues

1 - a)



This degree correlation matrix represents the correlation between Ki to Kj, it means, which is the probability of finding a node with degrees i and j at the two ends of a randomly selected link. In the above matrix we see a large correlation between low degrees. Thus, it means this network is disassortative.

b)



This degree correlation function represents the average degree of neighbors of K, in the above chart we see that some hubs prefer to link to low-degree nodes. However, there still are nodes that don't. Hence, it means this network is disassortative, but only a few characteristics are present.

c) The degree correlation coefficient is -0.0550781, thus this network is disassortative.