Assignment 8: Social Network Analysis

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1.) Apply the HITS algorithm.

Node 1: 3 votes/45 votes = 0.067

Node 2: 2 votes/45 votes = 0.044

Node 3: 4 votes/45 votes = 0.089

Node 4: 1 vote/45 votes = 0.022

Node 5: 0 votes/45 votes = 0

Node 6: 9 votes/45 votes = 0.2

Node 7: 4 votes/45 votes = 0.089

Node 8: 0 Votes/45 votes = 0

Node 9: 0 Votes/45 votes = 0

Node 10: 0 Votes/45 votes = 0

Node 11: 2 Votes/45 votes = 0.044

Node 12: 7 Votes/45 votes = 0.155

Node 13: 4 Votes/45 votes = 0.089

Node 14: 4 Votes/45 votes = 0.089

Node 15: 5 Votes/45 votes = 0.11

Total number of authority votes: 45 votes

2.) Find the Hubs and Authorities

Graph 1

Node 1: Hub and Authority

Node 2: Hub and Authority

Node 3: Authority

Node 4: Hub and Authority

Node 5: Hub and Authority

Graph 2

Node 1: Hub and Authority

Node 2: Hub and Authority

Node 3: Hub and Authority

Node 4: Hub and Authority