Lab Answer Sheet.

Please complete this answer sheet and turn it in at the beginning of class on the due date posted in LEARN.

Part I

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| Question | Answer |
| 1  (10 pts) | I would say that my graph is now a “balloon” shape, with Betty in the center. |
| 2  (10 pts) | The nodes are now labeled with the names of the people. |
| 3  (8 pts) | Since Betty is in the middle and has the most edges connecting “her” to other nodes, she should receive the largest value for size. |
| 4  (8 pts) | 2(14)/10(10-1) = 28/90 = .3111 |
| 5  (6 pts) | C(C) = 1/(d(C,A)+d(C,B)+d(C,D)+d(C,E)+d(C,F)+d(C,G)+d(C,H)+d(C,I)+d(C,J))  C(C) = 1/(2+1+1+3+2+1+1+2+2)  C(C) = 1/15  C(C) = .0667 |
| 6  (6 pts) | C(B) = 1/(d(B,A)+d(B,C)+d(B,D)+d(B,E)+d(B,F)+d(B,G)+d(B,H)+d(B,I)+d(B,J))  C(B) = 1/(1+1+1+2+1+1+2+1+2)  C(B) = 1/12  C(B) = .0833 |
| 7  (6 pts) | Betty |
| 8  (6 pts) | Create a screen capture in a separate file. |

Question 9

(10 pts) **Write up a report to discuss your social network (50-200 words)**:

1. The name and a description of the social network that you chose to examine.
2. The layout algorithm used for the graph.
3. Two observations from the social network analysis and visualization.

The graph I chose to view was redlobster\_2016-10-26\_19-00-00.xlsx. This graph creates nodes based off the tweets that contained “redlobster” and those that commented on those posts. The graph uses the Clauset-Newman-Moore cluster algorithm to group vertices and the Harel-Koren Fast Multiscale layout algorithm to organize/lay-out the data. In this graph I notice the organization of the cluster. For example, each cluster is set off into certain groups depending on the content of the tweet. Additionally, I notice the color factor to further group/separate the different topics.

http://www.nodexlgraphgallery.org/pages/Graph.aspx?graphID=80445