Activity 4: Visualize Graph Data

GT Account Name: abriel3

Inspect

Name of network dataset: bitcoin-otc
Description: A network that stores the reputations of individuals who trade Bitcoin on the Bitcoin OTC platform.
Link: http://snap.stanford.edu/data/soc-sign-bitcoinotc.html

Tail of vertices:

```
## + 6/5881 vertices, named, from 8e82061:
## [1] 5997 5998 6002 6003 6004 6005
```

Sample of 10 edges:

```
## + 10/35591 edges from 8e82061 (vertex names):
##  [1] 1811->1753 4543->3837 419 ->520  3430->2784 4400->4402 4114->1764
##  [7] 832 ->868  3738->687  2720->2721 2378->2889
```

Mean degree of nodes:

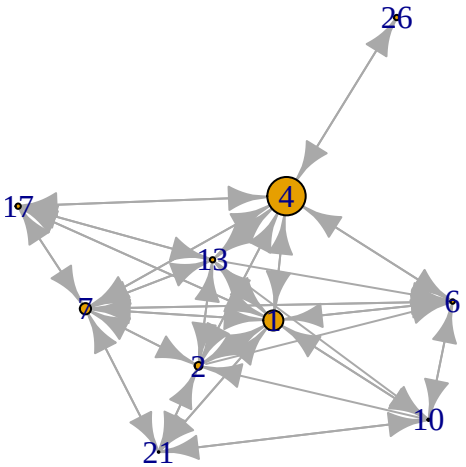
```
## [1] 12.10372
```

Mean degree distribution:

```
## [1] 0.0007698229
```

Visualization:

The graph below shows a subset of 10 traders in the bitcoin-otc network, where arrows indicate direction of who rated who, and vertex size represents the betweenness centrality of each vertex.



References:

Citation required for use of dataset, S. Kumar, F. Spezzano, V.S. Subrahmanian, C. Faloutsos. Edge Weight Prediction in Weighted Signed Networks. IEEE International Conference on Data Mining (ICDM), 2016.