

# Solutions to Assignment 1

## Advanced Tools for Complex Network Analysis

### CNET 5052, Spring 2026

ADD YOUR NAME\*

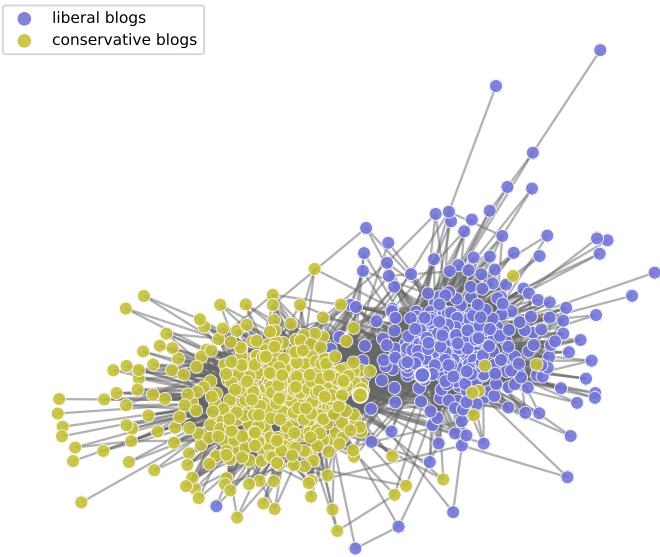
#### 1. Question 1.

- (a) Add! Your! Answer! Here!
- (b) Add! Your! Answer! Here!
- (c) Add! Your! Answer! Here!
- (d) Add! Your! Answer! Here!

#### 2. Question 2.

- (a) Add! Your! Answer! Here! and maybe add a visual...?

Hyperlinks between Political Blogs  
(Adamic & Glance, 2005)



- (b) Add! Your! Answer! Here!
- (c) Add! Your! Answer! Here!
- (d) Add! Your! Answer! Here!

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\* ADD CLASS REPO FORK [https://github.com/your\\_github\\_handle/cnet5052\\_sp26](https://github.com/your_github_handle/cnet5052_sp26)

**3. Question 3.**

- (a) Add! Your! Answer! Here!

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```
# Supplement your written text with code, if you'd like!
import networkx as nx

G = nx.karate_club_graph()

print("We still want to see your actual code in your github repos,
      but this can be useful for making a point in your answers")
```

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- (b) Add! Your! Answer! Here!  
 (c) Add! Your! Answer! Here!  
 (d) Add! Your! Answer! Here!

**4. Question 4.**

- (a) Add! Your! Answer! Here!  
 (b) Add! Your! Answer! Here!  
 (c) Add! Your! Answer! Here!  
 (d) Add! Your! Answer! Here!  
 (e) Add! Your! Answer! Here!

**5. Question 5.**

- (a) Add! Your! Answer! Here!  
 (b) Add! Your! Answer! Here!  
 (c) Add! Your! Answer! Here!  
 (d) Add! Your! Answer! Here!

If you reference anything, add it to the bibliography below and cite it in the text using `\cite{Hartle2020_wegd}` [1].

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[1] Hartle, H., Klein, B., McCabe, S.D., Daniels, A., St-Onge, G., Murphy, C., & Hébert-Dufresne, L. (2020). Network comparison and the within-ensemble graph distance. *Proceedings of the Royal Society A*, 476: 20190744. doi: [10.1098/rspa.2019.0744](https://doi.org/10.1098/rspa.2019.0744).