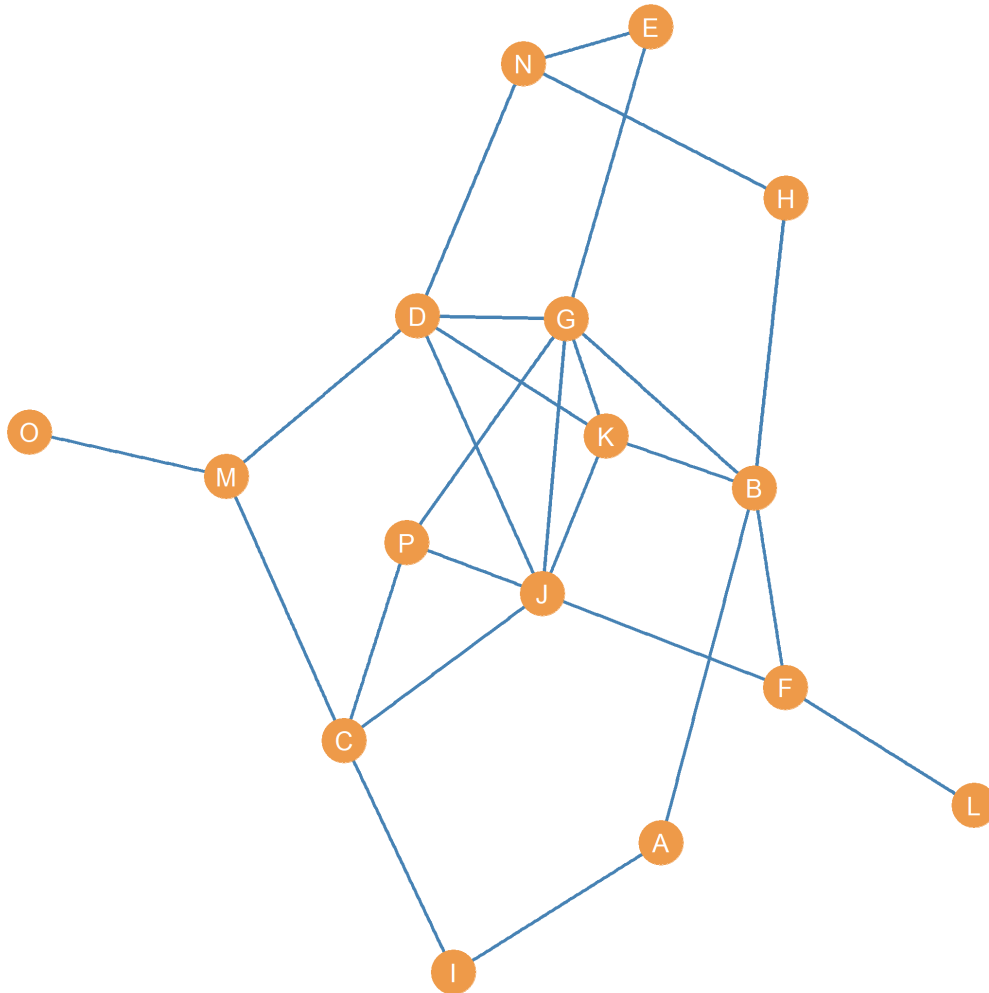


### Homework III:



*Figure 1: An undirected graph.*

Consider the graph shown in [Figure 1](#):

1. What is the **order** of the graph?
2. Write down the graph's **degree sequence**:

3. What is the graph's **degree range**?
4. What is the graph's **sum of degrees**?
5. What is the **size** of the graph?
6. What is the graph's **average degree**?
7. What is the graph's **maximum size**?
8. Compute the **density** of the graph:

1. What is the graph's **out-degree sequence**?
2. What is the graph's **in-degree sequence**?
3. What is the graph's **out-degree range**?

4. What is the graph's **in-degree range**?
5. What is the graph's **sum of degrees**?
6. What is the **size** of the graph?
7. What is the graph's **maximum size**?
8. Compute the **density** of the graph: