1. Shortest path distance problem (unweighted/ weighted graphs)
    a. Given two nodes, compute the shortest-path length for the pair of node.
    b. Average shortest path for all nodes in graphs.
    c. Writing pseudo code
2. Node degree & pseudo code
    a. In degree, out degree problem
    b. Average degree of nodes in graphs
    c. Gieven a degree ‘d’, writing pseudo function finding nodes that have degree ‘d’
3. Centrality measures for undirected/directed graphs & pseudo code
    a. Degree Centrality, Histogram
    b. Closeness Centrality
    c. Betweenness Centrality
4. Link prediction & pseudo code
    a. Graph distance
    b. Common neighbors
    c. Jaccard’s coefficient
    d. Adamic-Adar (AA)
    e. Preferential attachment (PA)
    f. SimRank
5. Community Detection & pseudo code
    a. Find k-clique communities
    b. Maximum clique