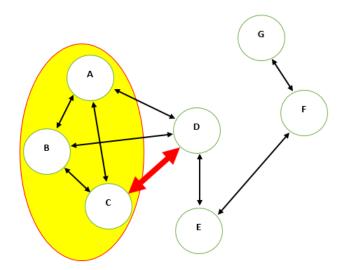
The Clique Problem

Reference: https://en.wikipedia.org/wiki/Clique_problem

This program is used in calculating the maximum clique in a group. (A clique is a subset of people who all know each other)

One of its major application is in **Social Networking** for discovering and suggesting mutual friendship.

Sample Illustration:



A, B and C all know each other (Clique). A and B also know D which signifies a high probability of C knowing D.

This program uses brute force algorithm on the adjacency matrix of the graph.

Problem Sample:

Using file.txt as sample input

8	Number of Vertices (Number of persons)
11	Number of Edges (Number of connections)
1 bob	
2 tom	
3 george	
4 john	List of persons in the entire graph
5 mary	
6 sally	
7 jane	
8 allice	
1 2	
2 3	
3 4	
4 5	
2 6	
2 7	Connection breakdown
3 6	(i.e 1 2 means 1 knows 2 or simply bob knows tom 2 3 means 2 knows 3 or simply tom knows george)
3 7	2 5 main 2 minutes of simply tom minutes george/
6 7	
6 8	
7 8	

Output: