## CS & IT ENGINEERING

Data Structure

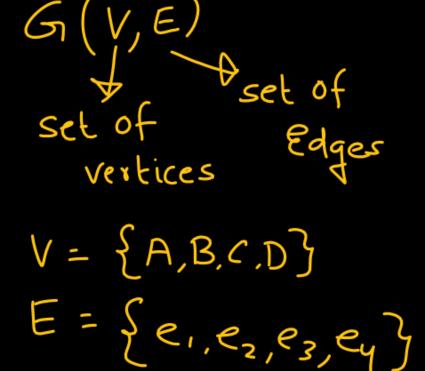
**Graph**S
In One Shot



By-Pankaj Sharma sir

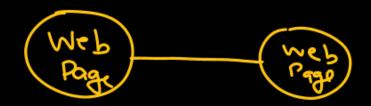


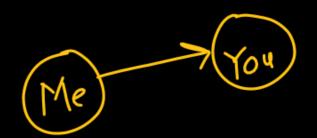
Non-linear data structure.



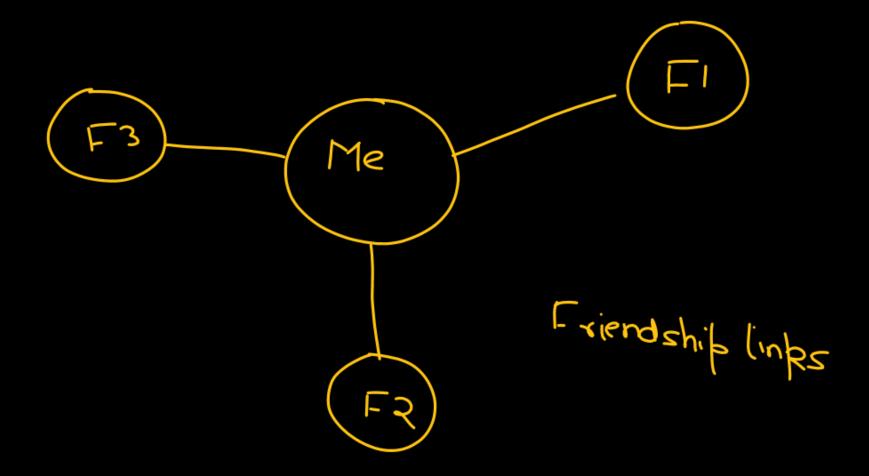
CŞ

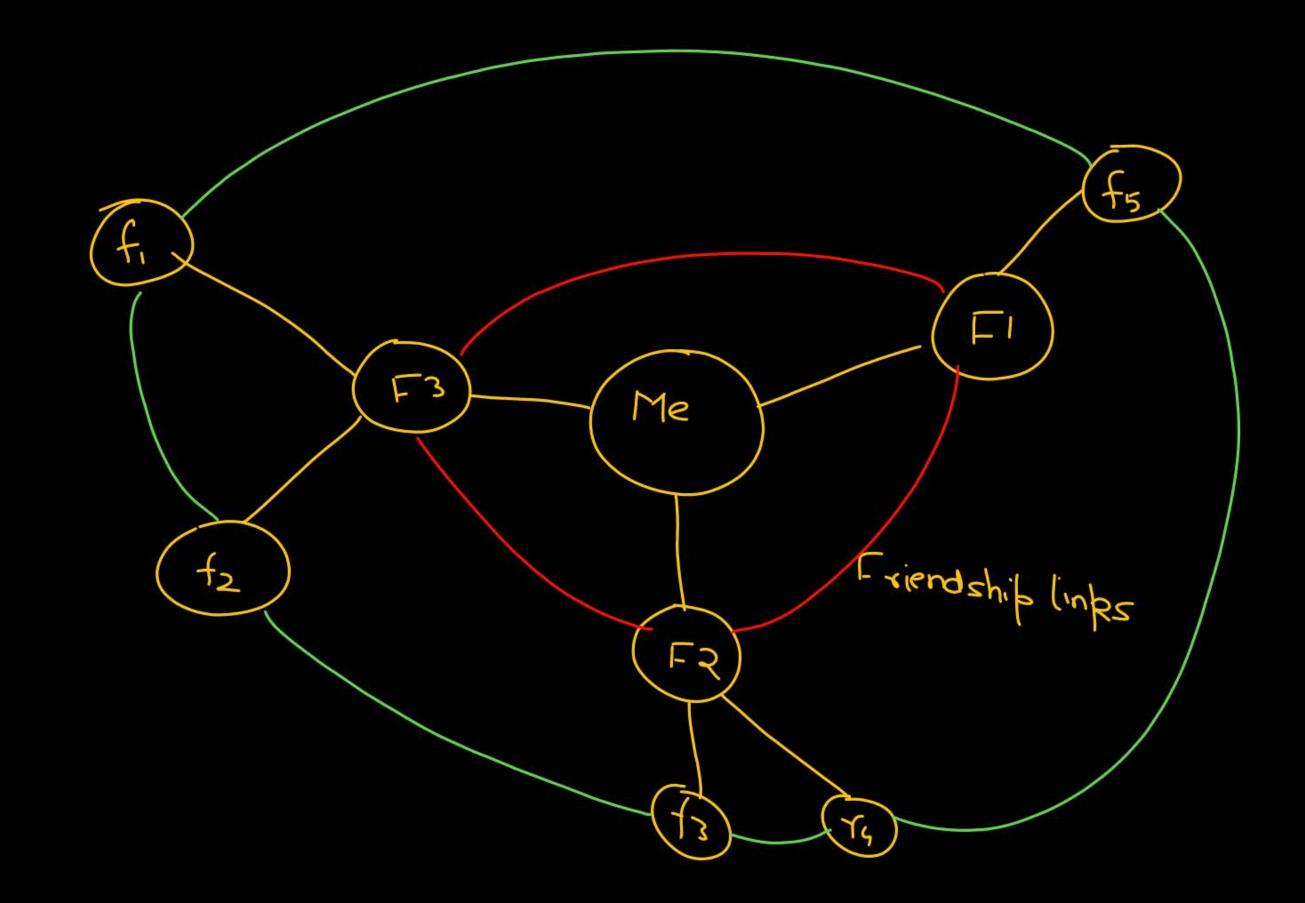
MWW







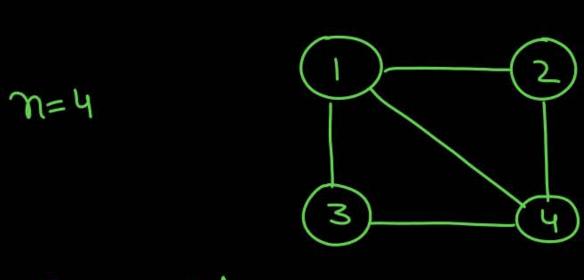




Graph Representation

Adjacency Matrix

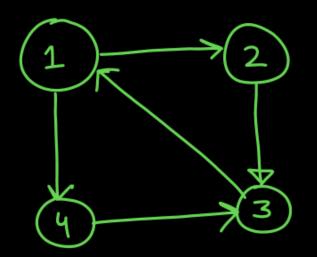
Adjacency List

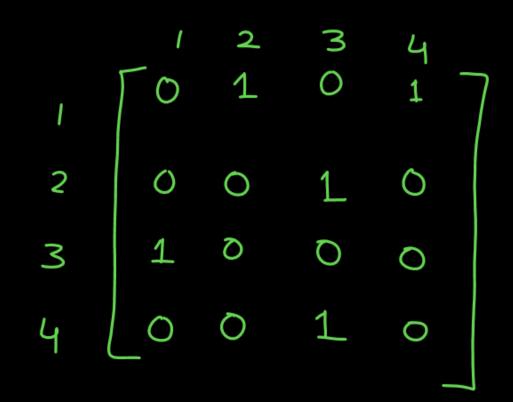


on Modring in which Each entry is either 0 or 1

Undirected LA 2/E/

Aij = 1 if mode i is adjacent to mode j = 0, Otherwise



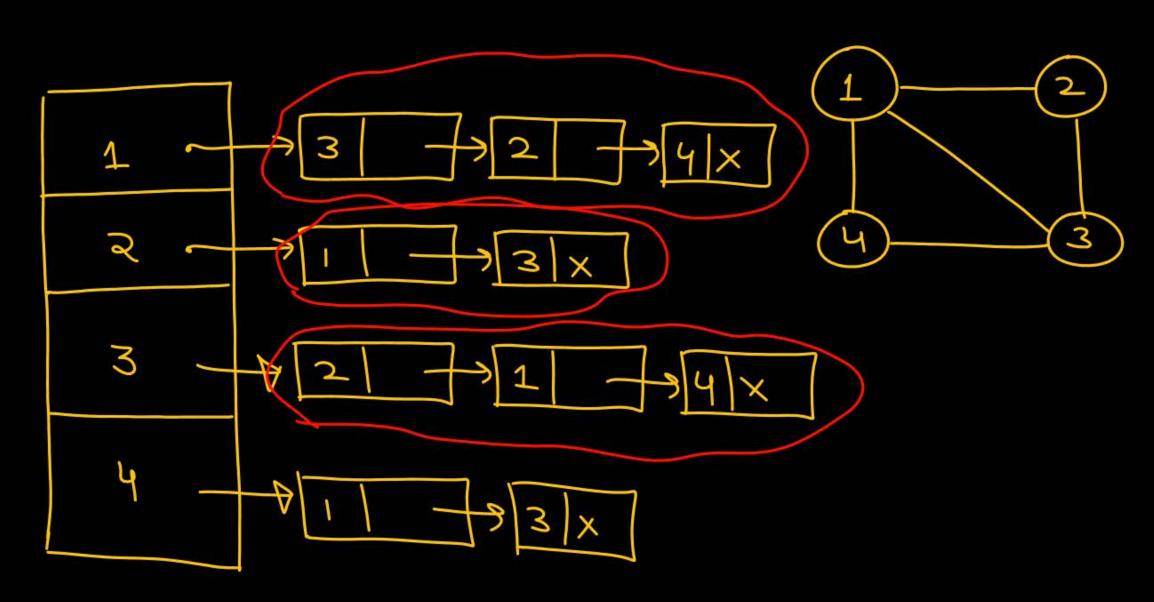


V-1dj. Matrix

10 Nsexs
10 X 10

Sparse Denkoy 1 Off

Adjacency List



Grouph Traversal

BFS

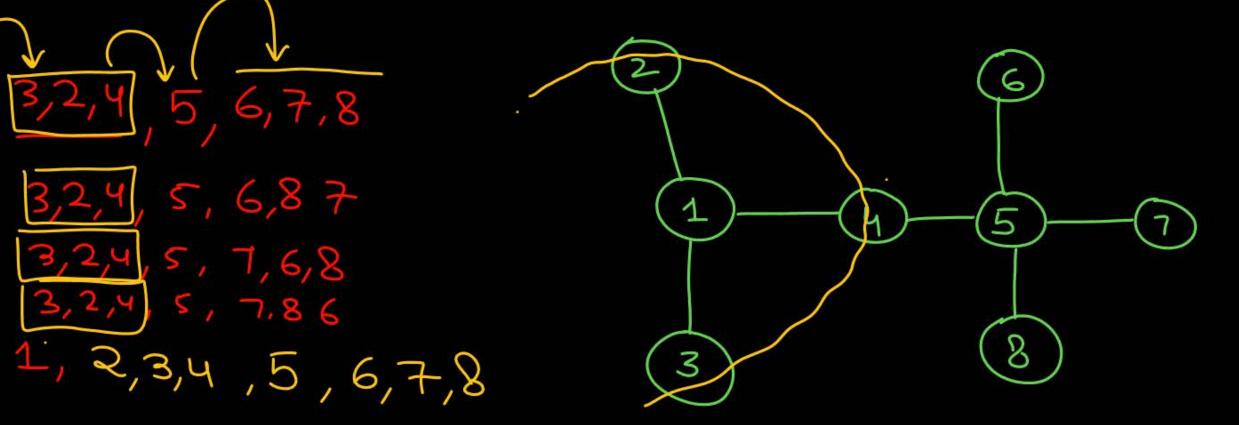
DFS

visiting a node:

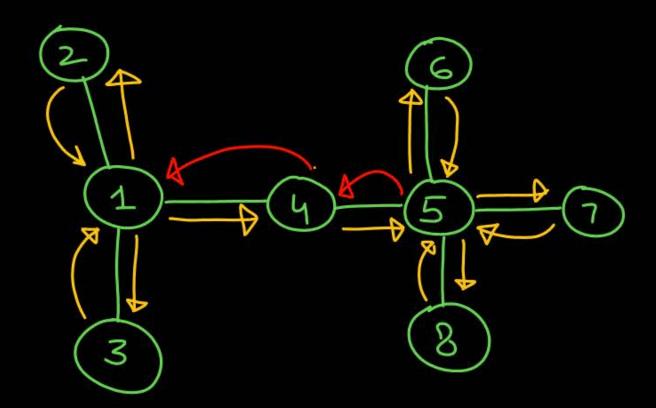
Exploring a mode:

Queve BFS

Queve 1, 3,2,4, 5, 6,87 1, 3,2,4, 5, 6,87 1, 3,2,4, 5, 7,6,8 1, 3,2,4, 5, 7,86



Explore Explore start start Emplore Stop 2,3,4,5,6,7,8



1,2,6,5,7,8,4,1,3

Dource node

Dourc

8:30



