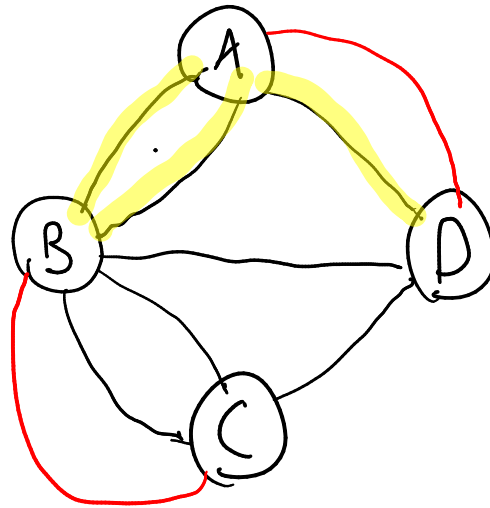


# Review of the bridges problem

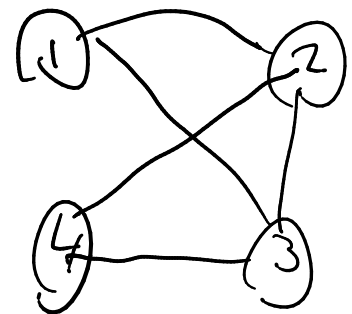


## Data structures:

Undirected Network

Adjacency Matrix

$$A = \{(1, 2), (2, 3), (2, 4), (3, 1), (4, 3)\}$$



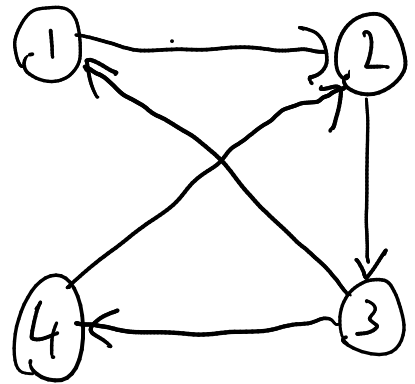
$$\text{Adj Mat} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 1 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix} \begin{matrix} 2 \\ 3 \\ 3 \\ 2 \end{matrix}$$

2   3   3   2

# Directed

$$\text{AdjM} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix} \begin{matrix} 1 \\ 1 \\ 2 \\ 1 \end{matrix}$$

1      2      1      1



indegree & outdegree

## Adjacency list

Forward

