

Aufgabe 2

$$G = \{V, \vec{X}\}$$

$$V = \{A, B, C, D, E, F\}$$

$$\vec{X} = \{(A, B), (A, C), (A, D), (A, E), (A, F), (B, A), (C, A), (D, A), (E, A), (F, A)\}$$

Adjacency ~~Liste~~ Liste

A	B	C	D	E	F
↓	↓	↓	↓	↓	↓
B	A	A	A	A	A
C					
D					
E					
F					

Adjacency Matrix

$$A = \begin{bmatrix} 0 & 1 & 1 & 1 & 1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

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$$A = \begin{bmatrix} 0 & 1 & 1 & 1 & 1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

Aufgabe 3.

$$G = \langle V, \vec{x} \rangle$$

$$V = \{A, B, C, D, E, F\}$$

$$\vec{x} = \{(A, B), (A, C), (A, D), (A, E), (A, F), (F, A)\}$$

Adjazenz Matrix

$$A = \begin{bmatrix} 0 & 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

Graph

