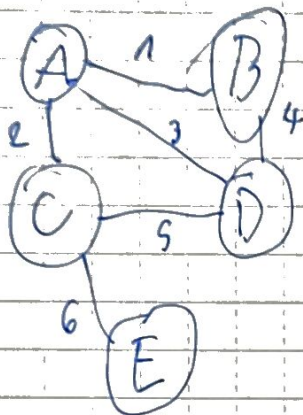


#TGHE - cr 3

matice sousednosti



	A	B	C	D	E
A	0	1	1	1	0
B	1	0	0	1	0
C	1	0	0	1	1
D	1	1	1	0	0
E	0	0	1	0	0

matice incidence

	1	2	3	4	5	6	- hrany
A	1	1	1	0	0	0	
B	1	0	0	1	0	0	
C	0	1	0	0	1	1	
D	0	0	1	1	1	0	
E	0	0	0	0	0	1	

stupně

$$B \cdot B^T = L$$

$$L = A + I \cdot \text{stupně vrcholů}$$

$$L = \begin{pmatrix} 3 & 1 & 1 & 1 & 0 \\ 1 & 2 & 0 & 1 & 0 \\ 1 & 0 & 3 & 1 & 1 \\ 1 & 1 & 1 & 3 & 0 \\ 0 & 0 & 1 & 0 & 1 \end{pmatrix}$$

$$A \cdot A = \begin{pmatrix} 3 & 1 & 1 & 2 & 1 \\ 1 & 2 & 2 & 2 & 0 \\ 1 & 2 & 3 & 2 & 0 \\ 2 & 1 & 3 & 3 & 1 \\ 1 & 0 & 1 & 1 & 1 \end{pmatrix}$$

1 SQUARE = 1ajmn