

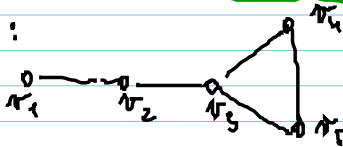
GESTAVTE METRIKU NAŠLEDUJÍCÍCH GRAFOŮ

$$V(G) = \{v_1, v_2, \dots, v_n\}$$

$M(G)$ je matice $n \times n$ kde na

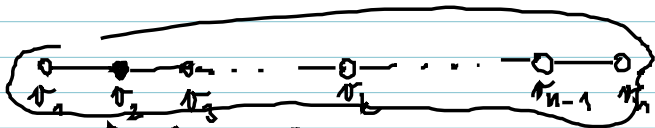
konci (i, j) : $\text{dist}_G(v_i, v_j)$

(1) G :



$$M(G) = \begin{bmatrix} 0 & 1 & 2 & 3 & 3 \\ 1 & 0 & 1 & 2 & 2 \\ 2 & 1 & 0 & 1 & 1 \\ 3 & 2 & 1 & 0 & 1 \\ 3 & 2 & 1 & 1 & 0 \end{bmatrix} \begin{array}{l} M(K_n) \\ M(K_{m,n}) \end{array}$$

2) P_n :



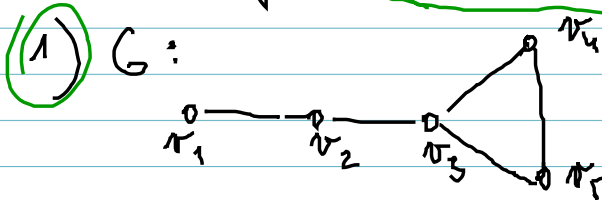
$$M(G) = \begin{array}{l} v_1 \\ \vdots \\ v_i \\ \vdots \\ v_k \\ \vdots \\ v_n \end{array} \begin{bmatrix} 0 & 1 & & & & \\ & 0 & 1 & & & \\ & 1 & 0 & & & \\ & & & \ddots & & \\ & & & & 0 & 1 \\ & & & & 1 & 0 \\ & & & & & & \ddots & \\ & & & & & & & 0 & 1 \\ & & & & & & & 1 & 0 \\ & & & & & & & & & 0 \end{bmatrix}$$

SESTAVTE METRIKU NÁSLEDUJÍCÍCH GRAFŮ

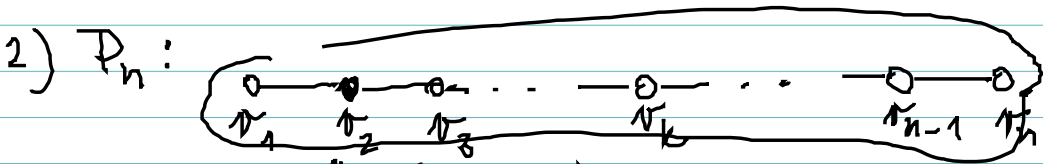
$$V(G) = \{v_1, v_2, \dots, v_n\}$$

$M(G)$ je matice $n \times n$ kde na

průsečí (i, j) : $\text{dist}_G(v_i, v_j)$



$$M(G) = \begin{bmatrix} 0 & 1 & 2 & 3 & 3 \\ 1 & 0 & 1 & 2 & 2 \\ 2 & 1 & 0 & 1 & 1 \\ 3 & 2 & 1 & 0 & 1 \\ 3 & 2 & 1 & 1 & 0 \end{bmatrix} \quad \begin{array}{l} M(K_n) \\ M(K_{m,n}) \end{array}$$



$$M(L) = \begin{array}{c} v_1 \\ v_2 \\ \vdots \\ v_k \\ \vdots \\ v_n \end{array} \begin{bmatrix} 0 & 1 & & k-1 & & n-1 \\ 1 & 0 & & k-2 & & n-2 \\ & & \ddots & & & \\ v_k & k-1 & k-2 & 0 & & n-k \\ & & & & \ddots & \\ v_n & n-1 & n-2 & & n-k & 0 \end{bmatrix}$$