



$$G = \begin{pmatrix} A & (I) & B \\ (I_d) & (I_d) & 0 \end{pmatrix} \begin{matrix} B \\ G \\ B_2 \end{matrix}$$


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$$G = A' \begin{pmatrix} (I_d) & 0 \end{pmatrix} B'$$

$$\begin{matrix} \downarrow & \downarrow & \downarrow \\ \boxed{G} & = & A \cdot C \cdot \boxed{B_1} \end{matrix}$$

$$M = A \cdot C \cdot M_1$$

$$|M| = |A| \cdot |C| \cdot |M_1|$$

$$\deg = 0 + \deg + \deg |M_1|$$

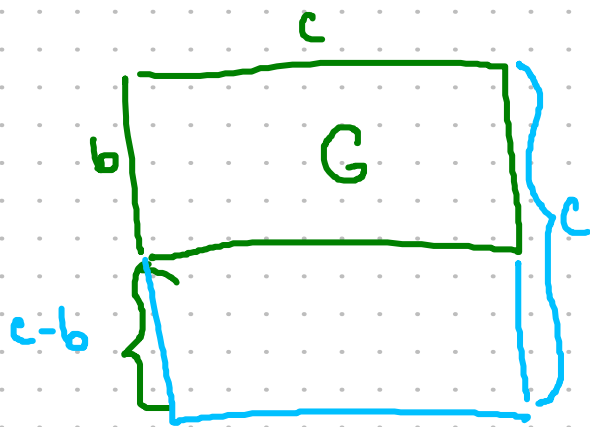
$$\text{indeg } G = \text{indeg } B_1 + 0 + (\sum \deg p_i)$$

~~$$\begin{matrix} T & H & = & G \\ \downarrow & & & \\ \text{matrix product} & & & \end{matrix} \quad \begin{matrix} T \cdot H & G' & = & Id \end{matrix}$$~~

$$\begin{matrix} \text{indeg } H = \deg |T| + \text{indeg } G \\ \text{indeg } H \geq \text{indeg } G \end{matrix}$$

$$H = TG \quad \text{indeg } H = \deg |T| + \text{indeg } G$$

$$HG' = \begin{matrix} T \\ \text{poly} \end{matrix} \begin{pmatrix} GG' \\ Id \end{pmatrix} \quad \text{indeg } H \geq \text{indeg } G$$



unimodular:  $\det \in \mathbb{F}$

( $p_0 \dots p_n$ )  
 help in

$$\begin{aligned}
 \mathcal{P} &= p_0 + p_1 D + \dots + p_n D^n & | & \mathcal{G} = \\
 &= (\alpha_1 - D)(\alpha_2 - D) \dots (\alpha_n - D) & | & (\beta_1 - D)(\beta_2 - D) \dots (\beta_n - D)
 \end{aligned}$$

$\parallel$  poly.  $\mathcal{P}$  a  $\mathcal{G} \Leftrightarrow$  mají společný kořen  
 rozd

$$G = A \cdot \left( \begin{array}{c|c} c & 0 \end{array} \right) B$$

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EKVIV. G

$$\underline{G} = \boxed{A} \left( \begin{array}{c|c} \text{---} & 0 \end{array} \right) \begin{array}{c} \boxed{B_1} \\ \boxed{B_2} \end{array}$$

$$G = \boxed{A} \cdot c \cdot \boxed{B_1} \stackrel{c=I_n}{=} \boxed{A} \boxed{B_1}$$

$$\boxed{B^{-1}} \cdot \boxed{A^{-1}} \cdot \boxed{I_n}$$

$$\left( \begin{array}{c|c} \boxed{A} & \boxed{0} \\ \boxed{0} & \text{---} \end{array} \right) \cdot \left( \begin{array}{c} \boxed{B_1} \\ \text{---} \\ \boxed{B_2} \end{array} \right) = \begin{array}{c} \boxed{G} \\ \boxed{B_2} \end{array}$$