WIHW

1.4.7.8.10.

用第一行滴元:
$$L_1L = (I-l_1e_1^T)L$$

$$\Rightarrow L_{\lambda} = \begin{pmatrix} \frac{1}{\lambda_{n}} & & \\ & \frac{1}{\lambda_{n}} & & \\ & & \frac{1}{\lambda_{n}} \end{pmatrix} \Rightarrow L_{\lambda} L_{n-1} - L_{1} L_{2} = \begin{pmatrix} 1 & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{pmatrix}$$

$$\Rightarrow$$
 $L_{\lambda} L_{n-1} \cdots L_{i} = L^{-1}$

$$\Rightarrow \quad L^{-1} = L_{n} \left(I - l_{n-1} e_{n-1}^{-1} \right) \left(I - l_{n-2} e_{n-1}^{-1} \right) - \left(I - l_{1} e_{1}^{-1} \right)$$

$$\mathbb{I}\left(\hat{\boldsymbol{\gamma}}_{+1}:\boldsymbol{N},\boldsymbol{\Gamma}_{1}:\hat{\boldsymbol{\gamma}}\right)=\mathbb{I}\left(\hat{\boldsymbol{\gamma}}_{+1}:\boldsymbol{N},\boldsymbol{\Gamma}_{1}:\hat{\boldsymbol{\gamma}}\right)-\mathbb{I}\left(\hat{\boldsymbol{\gamma}}_{1},\boldsymbol{\Gamma}_{1}:\hat{\boldsymbol{\gamma}}\right)\cdot\mathbb{L}\left(\hat{\boldsymbol{\gamma}}_{+1}:\boldsymbol{N},\boldsymbol{\sigma}_{1}:\hat{\boldsymbol{\gamma}}\right)\big/\left[\mathbb{L}\left(\hat{\boldsymbol{\gamma}}_{1}:\hat{\boldsymbol{\gamma}}\right)\right]$$

4.
$$\begin{bmatrix} 2 \\ 3 \\ 4 \end{bmatrix} = \begin{bmatrix} 2 \\ 7 \\ 8 \end{bmatrix}$$

$$\Rightarrow L = I - \begin{pmatrix} 0 \\ -2 \\ -2 \end{pmatrix} (1,0,0) = \begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 0 \\ 2 & 0 & 1 \end{pmatrix}$$

発证:
$$\begin{pmatrix} 1 & 0 & 0 \\ 2 & 1 & 0 \\ 2 & 0 & 1 \end{pmatrix}$$
 $\begin{pmatrix} 2 \\ 3 \\ 4 \end{pmatrix}$ = $\begin{pmatrix} 2 \\ 7 \\ 8 \end{pmatrix}$

$$\begin{aligned}
\alpha_{ij}' &= \alpha_{ij} - \alpha_{ij} \cdot \frac{\alpha_{i1}}{\alpha_{i1}} & \Leftrightarrow \alpha_{ij} &= \alpha_{ji} \\
\alpha_{ij}' &= \alpha_{ji} - \alpha_{ii} \cdot \frac{\alpha_{j1}}{\alpha_{i1}} & \alpha_{ij} &= \alpha_{ji}
\end{aligned}$$

$$\Rightarrow \alpha_{ij}' = \alpha_{ji}' = \alpha_{ji}'$$

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8· A. 严格对南台代阵.

$$|a_{kk}| > \sum_{\substack{j=1\\j\neq k}}^{n} |a_{kj}|$$

of Az 事格对南古代 <A 多格对南方代

Check: 茅龙行

$$O \quad Q_{k2} - Q_{12} \cdot \frac{Q_{k1}}{Q_{11}} \quad Q_{k3} - Q_{13} \cdot \frac{Q_{k1}}{Q_{11}} \quad \cdots \quad Q_{kk} - Q_{1k} \cdot \frac{Q_{k1}}{Q_{11}} \quad \cdots \quad Q_{kn} - Q_{n} \cdot \frac{Q_{k1}}{Q_{11}}$$

$$\left[Q_{KK}\right] = \left|Q_{KK} - Q_{IK} \frac{Q_{KI}}{Q_{II}}\right|,$$

$$\frac{\int_{j=1}^{N} \left| \alpha_{kj} \right| = \frac{\int_{j=1}^{N} \left| \alpha_{kj} - \alpha_{lj} \frac{\alpha_{kl}}{\alpha_{ll}} \right| < \frac{\int_{j=1}^{N} \left| \alpha_{kj} \right| + \frac{\int_{j=1}^{N} \left| \frac{\alpha_{lj}}{\alpha_{ll}} \right| \left| \alpha_{lcl} \right|}{\int_{j\neq k}^{j\neq k}}$$

$$<\sum_{\substack{j=2\\j\neq ic}}^{n} \left[a_{icj}\right] + \left[a_{ici}\right] \left(1 - \frac{\left[a_{ik}\right]}{\left[a_{ii}\right]}\right)$$

$$= \sum_{\substack{j=1\\j\neq k}}^{n} |a_{kj}| - \frac{|a_{1k}|}{|a_{n1}|} |a_{k1}| < |a_{kr}|.$$