$

 \begin{cases}

 x+y+z=1\\

 x-y-z=2\\

 x-y+z=3

 \end{cases}\

 $

 $

 \begin{cases}

 x+z=1\\

 x-y-z=2\\

 x-y+z=3

 \end{cases}\

 $

 $

\left\{ \begin{array}{ccc}

 x& &+z=1\\

 x&-y&-z=2\\

 x&-y&+z=3

\end{array} \right.

 $

 $ \vmatrix a & b & c\\ b & e &d \\ a & n & s\endvmatrix $

 $\begin{pmatrix}0 & 0 \\0 & 0 \end{pmatrix}$

 $\begin{bmatrix}0 & 0 \\0 & 0 \end{bmatrix}$

$\begin{pmatrix}

 3 & 6 &5\\

 4 & 3 &5\\

 3 & 5 &6

\end{pmatrix}$

$\begin{bmatrix}

 3 & 6 &5\\

 4 & 3 &5\\

 3 & 5 &6

\end{bmatrix}$

 $\begin{pmatrix}

 3 & 6 &\cdots &5\\

 4 & 3 &\cdots &5\\

 \vdots &\vdots &\ddots &\vdots\\

 3 & 5 &\cdots &6

 \end{pmatrix}$

$\begin{pmatrix}[0]\_1 & [0]\_2^T \\

 [0]\_2 & \begin{array}{cccc}

 \eta\_{s} &\cdots &0\\

 \vdots &\ddots &\vdots\\

 0 &\cdots &\eta\_r

 \end{array} \end{pmatrix}$

 $

 \begin{bmatrix}[0]\_1 & [0]\_2^T \\

 [0]\_2 & \begin{array}{cccc}

 \eta\_{s} &\cdots &0\\

 \vdots &\ddots &\vdots\\

 0 &\cdots &\eta\_r

 \end{array} \end{bmatrix}

 $

 $\begin{pmatrix}\begin{array}{ccc}

 11 & \quad \quad& 22 \\ 33 &\qquad & 44

 \end{array} & [0] & \begin{array}{cc}

 55 \\ 66

 \end{array}\\ [0]^T & 77 & 88\\ \begin{array}{cc}

 99 & 12

 \end{array} & 13 & 14\end{pmatrix}$

 $\left[\begin{matrix}

 a & b & c\\

 d& e & f

 \end{matrix} \left|\,\begin{matrix}

 0\\

 0

 \end{matrix}\right.\right]$

 \begin{equation}

 \bar{A}\_v= \begin{pmatrix}[0]\_1 & [0]\_2^T \\

 [0]\_2 & \begin{array}{cccc}

 \eta\_{s} &\cdots &0\\

 \vdots &\ddots &\vdots\\

 0 &\cdots &\eta\_r

 \end{array} \end{pmatrix}, \label{}

 \end{equation}

 $$

 \bar{A}=\left[\begin{array}{ccccc}

 a\_{11} & a\_{12} & \ldots & a\_{1 n} & a\_{1} \\

 a\_{21} & a\_{22} & \ldots & a\_{2 n} & a\_{2} \\

 \vdots & \vdots & \ddots & \vdots & \vdots \\

 a\_{n 1} & a\_{n 2} & \ldots & a\_{n n} & a\_{n} \\

 a\_{1} & a\_{2} & \ldots & a\_{n} & a\_{0}

 \end{array}\right].

 $$

 $$

 A=\left[\begin{array}{cccccccc}

 A\_{1} & 0 & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots \\

 0 & A\_{2} & 0 & \ldots & \ldots & \ldots & \ldots & \ldots \\

 \ldots & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots \\

 0 & \ldots & 0 & A\_{k} & 0 & \ldots & \ldots & \ldots \\

 0 & \ldots & \ldots & 0 & B\_{1} & 0 & \ldots & \ldots \\

 \ldots & \ldots & \ldots & \ldots & 0 & B\_{2} & 0 & \ldots \\

 \ldots & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots & \ldots \\

 0 & \ldots & \ldots & \ldots & \ldots & \ldots & 0 & B\_{l}

 \end{array}\right]

 $$

 $$

 A=\left[\begin{array}{ccccccc}

 1 & 0 & \ldots & 0 & 0 & \ldots & 0 \\

 0 & 1 & \ldots & 0 & 0 & \ldots & 0 \\

 \vdots & \vdots & \ddots & \vdots & \vdots & \ddots & \vdots \\

 0 & 0 & \ldots & 1 & 0 & \ldots & 0 \\

 0 & 0 & \ldots & 0 & -1 & \ldots & 0 \\

 \vdots & \vdots & \ddots & \vdots & \vdots & \ddots & \vdots \\

 0 & 0 & \ldots & 0 & 0 & \ldots & -1

 \end{array}\right]

 $$