

$$\left(\begin{array}{ccc|c} 4 & 3 & 2 & 11 \\ 3 & 3 & 1 & 6 \\ 1 & -2 & 3 & 13 \end{array} \right)$$

$$\left(\begin{array}{ccc|c} 4 & 3 & 2 & 11 \\ 3 & 3 & 1 & 6 \\ 1 & 2 & 3 & 13 \end{array} \right)$$

All possible pivots

$$\left(\begin{array}{ccc|c} 4 & 3 & 2 & 11 \\ 3 & 3 & 1 & 6 \\ 1 & 2 & 3 & 13 \end{array} \right)$$



Use this one

$$\left(\begin{array}{ccc|c} 4 & 3 & 2 & 11 \\ 3 & 3 & 1 & 6 \\ 1 & -2 & 3 & 13 \end{array} \right)$$

$$\begin{pmatrix} 1 & -2 & 3 & | & 13 \\ 3 & 3 & 1 & | & 6 \\ 4 & 3 & 2 & | & 11 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 3 & 3 & 1 & 6 \\ 4 & 3 & 2 & 11 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 9 & -8 & -33 \\ 0 & 11 & -10 & -41 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 9 & -8 & -33 \\ 0 & 11 & -10 & -41 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -\frac{8}{9} & -\frac{11}{3} \\ 0 & 11 & -10 & -41 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -8/9 & -11/3 \\ 0 & 0 & -2/9 & -2/3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -8/9 & -11/3 \\ 0 & 0 & -2/9 & -2/3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -8/9 & -11/3 \\ 0 & 0 & -2/9 & -2/3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -8/9 & -11/3 \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -8/9 & -11/3 \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -8/9 & -11/3 \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 3 & 13 \\ 0 & 1 & -\frac{8}{9} & -\frac{1}{3} \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

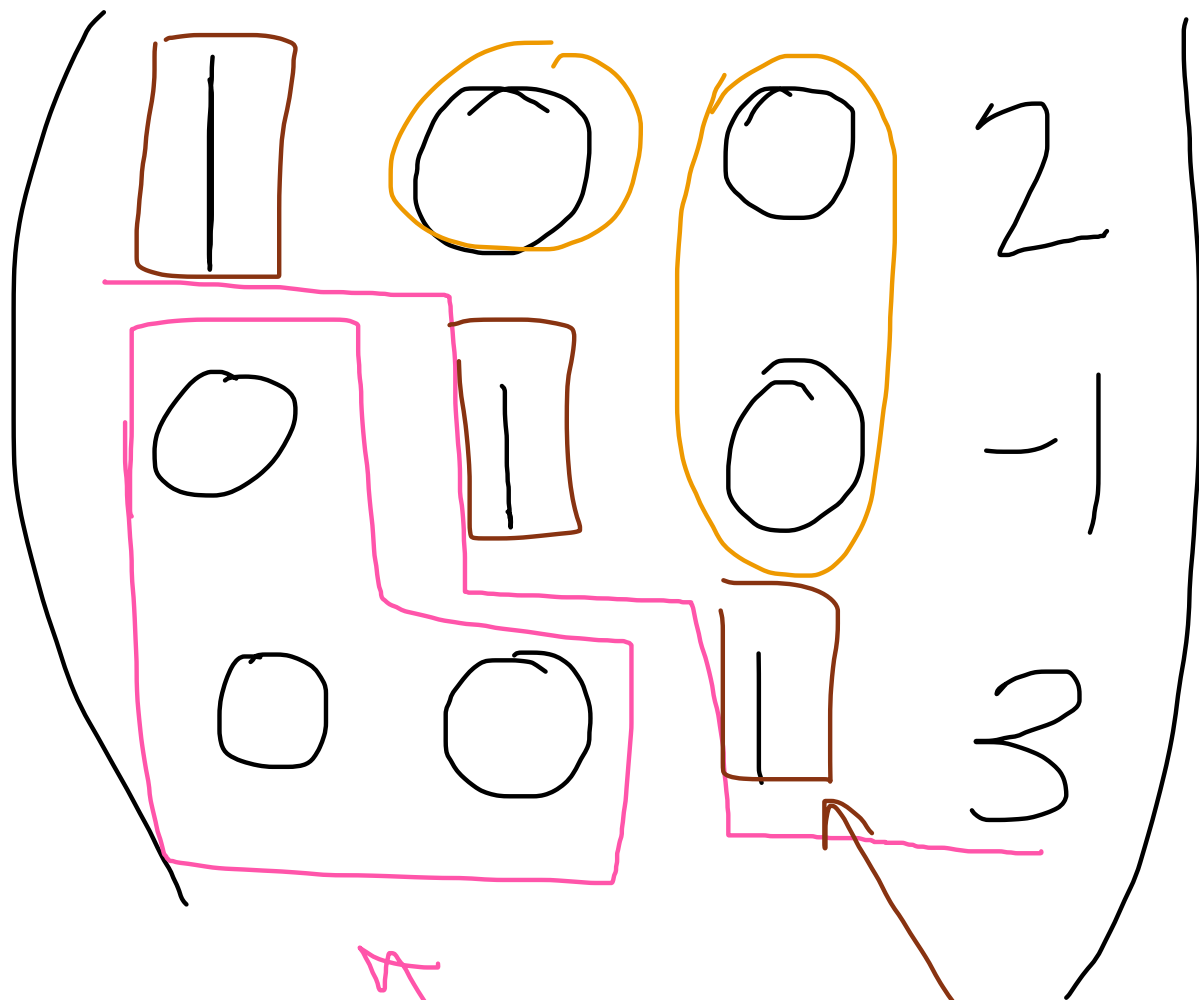
$$\begin{pmatrix} 1 & -2 & 0 & 4 \\ 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

$$\begin{pmatrix} 1 & -2 & 0 & 4 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 3 \end{pmatrix}$$

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

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

zero



All zero

Leading 1's