LU DECOMPOSITION

AARON XU, WILL FLANDERS

Out[22]//MatrixForm=

$$\begin{pmatrix} 1 & a01 & a02 & a03 \\ 0 & 1 & \frac{a12}{a11} & \frac{a13}{a11} \\ 0 & 0 & \frac{-a12 \ a21 + a11 \ a22}{a11} & \frac{-a13 \ a21 + a11 \ a23}{a11} \\ 0 & 0 & \frac{-a12 \ a31 + a11 \ a32}{a11} & \frac{-a13 \ a31 + a11 \ a33}{a11} \\ \end{pmatrix}$$