

$$\begin{bmatrix} 1 & 0 & 0 \\ -\frac{d}{a} & 1 & 0 \\ -\frac{g}{a} & 0 & 1 \end{bmatrix} \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} = \begin{bmatrix} \dots & \dots & \dots \\ -\frac{d}{a}a + d & -\frac{d}{a}b + e & -\frac{d}{a}c + f \\ -\frac{g}{a}a + g & -\frac{g}{a}b + h & -\frac{g}{a}c + i \end{bmatrix} = \begin{bmatrix} \dots & \dots & \dots \\ \cancel{0} & -\frac{d}{a}b + e & -\frac{d}{a}c + f \\ \cancel{0} & -\frac{g}{a}b + h & -\frac{g}{a}c + i \end{bmatrix}$$

M *A* *MA* *MA*

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} \dots & -\frac{d}{a}b + e & -\frac{d}{a}c + f \\ \dots & -\frac{g}{a}b + h & -\frac{g}{a}c + i \\ \dots & \dots & \dots \end{bmatrix} = \begin{bmatrix} \dots & \dots & \dots \\ \dots & \dots & \dots \\ \dots & \dots & \dots \end{bmatrix} \quad \left(-\frac{d}{a}c + i \right) \cdot \left(-\left(\frac{g}{a}b + h \right) \cdot \left(-\frac{d}{a}b + e \right) \right)$$

$$-\left(\frac{g}{a}b + h \right) \cdot \left(-\frac{d}{a}b + e \right) \xrightarrow{\text{ON}} (M[2,0] - A[2,1]) / (M[1,0] + A[1,1])$$

M *MA* *MM A*

$$\begin{bmatrix} A[1,0] & \dots & \dots \\ A[0,0] & \dots & \dots \\ A[2,0] & \dots & \dots \\ A[0,0] & \dots & \dots \end{bmatrix} \begin{bmatrix} A[1,0] & A[1,1] & A[1,2] \\ A[2,0] & A[2,1] & A[2,2] \end{bmatrix} = \begin{bmatrix} \dots & \dots & \dots \\ \dots & \dots & \dots \\ \dots & \dots & \dots \end{bmatrix}$$

M *ON* *DONE*

$$\begin{bmatrix} -A \frac{E[1,0]}{E[0,0]} \\ -A \frac{E[2,0]}{E[0,0]} \\ -A \frac{E[0,0]}{E[0,0]} \end{bmatrix} \cdot A \frac{E[2,0]}{E[0,0]} [2,1] + [2,1] \cdot (-A \dots)$$

$$(M[2,0] - A[2,1]) / (M[1,0] + A[1,1])$$

WHEN I CODE
I WILL REFER TO ... ALWAYS &
THEIR INDICES

I WILL OPERATE UNDERSTAND
FOR LOOPS