

Brick House

$$\begin{array}{c} \text{Rows} \\ \text{Cols} \end{array} \left(\begin{array}{c|c|c|c|c} \dots & \dots & \dots & \dots & \dots \\ \hline A_{n-1} & 0 & \dots & A_n & 0 \\ \hline \dots & \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n & 0 \\ \hline \dots & \dots & \dots & \dots & \dots \end{array} \right)$$

$$\begin{array}{c} \text{Rows} \\ \text{Cols} \end{array} \left(\begin{array}{c|c|c|c|c} \dots & \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n & 0 \\ \hline \dots & \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n & 0 \\ \hline \dots & \dots & \dots & \dots & \dots \end{array} \right) \quad \overline{\quad} \quad \overline{\quad}$$

$$\left(\begin{array}{c|c|c|c} \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n \\ \hline \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n \\ \hline \dots & \dots & \dots & \dots \end{array} \right)$$

$$\begin{array}{c} \text{Rows} \\ \text{Cols} \end{array} \left(\begin{array}{c|c|c|c} \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n \\ \hline \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n \\ \hline \dots & \dots & \dots & \dots \end{array} \right)$$

$$\begin{array}{c} \text{Rows} \\ \text{Cols} \end{array} \left(\begin{array}{c|c|c|c} \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n \\ \hline \dots & \dots & \dots & \dots \\ \hline A_n & 0 & \dots & A_n \\ \hline \dots & \dots & \dots & \dots \end{array} \right) \quad \overline{\quad} \quad \overline{\quad} \quad \overline{\quad}$$

$$\begin{array}{c} \text{Rows} \\ \text{Cols} \end{array} \left(\begin{array}{c|c|c|c|c|c|c|c} \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\ \hline v_1 & v_2 & v_3 & v_4 & v_5 & v_6 & v_7 & v_8 \\ \hline \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\ \hline v_1 & v_2 & v_3 & v_4 & v_5 & v_6 & v_7 & v_8 \\ \hline \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \end{array} \right)$$

$\begin{pmatrix} \text{Rows} \\ \text{Cols} \end{pmatrix} \times \begin{pmatrix} \text{Rows} \\ \text{Cols} \end{pmatrix}$

$$\begin{array}{c} \text{Rows} \\ \text{Cols} \end{array} \left(\begin{array}{c|c|c} \dots & \dots & \dots \\ \hline G & G & A_n \\ \hline \dots & \dots & \dots \\ \hline G & G & A_n \\ \hline \dots & \dots & \dots \end{array} \right)$$