$$\frac{2}{\alpha} \qquad A = L \qquad U$$

$$\begin{bmatrix}
0 & 1 \\
1 & 1
\end{bmatrix} = \begin{bmatrix}
l_{11} & 0 \\
l_{12} & l_{22}
\end{bmatrix} \begin{bmatrix}
0 & V_{12} \\
0 & V_{22}
\end{bmatrix}$$

$$l_{11} \qquad U_{11} = 0 \qquad V_{11} = 0$$

$$V_{11} = 0 \qquad V_{11} \neq 0 \qquad V_{12} = 0$$

$$V_{11} \neq 0 \qquad V_{12} = 0$$

$$V_{11} \neq 0 \qquad V_{12} = 0$$

$$V_{12} \qquad V_{13} = 0$$

$$V_{14} = 0 \qquad V_{14} = 0$$

$$V_{15} \qquad V_{17} = 0$$

$$V_{17} = 0 \qquad V_{17} = 0$$

$$V_{18} = 0 \qquad V_{19} = 0$$

$$V_{19} = 0 \qquad V_{19} = 0$$

$$V_{19} = 0 \qquad V_{19} = 0$$

$$V_{19} = 0 \qquad V_{19} = 0$$

$$V_{11} \neq 0 \qquad V_{11} = 0$$

$$V_{12} = 0 \qquad V_{13} = 0$$

$$V_{13} = 0 \qquad V_{14} = 0$$

$$V_{14} = 0 \qquad V_{15} = 0$$

$$V_{17} = 0 \qquad V_{17} = 0$$

$$V_{19} = 0 \qquad V_{19} = 0$$

$$V_{19} = 0 \qquad V_{$$