

$$\left[\begin{array}{cccc|c}
 \lambda_1 & 1 & \cdots & 0 & \\
 0 & \lambda_1 & \ddots & \vdots & \\
 \vdots & & \ddots & 1 & \\
 0 & & \cdots & \lambda_1 & \\
 \hline
 & & & & \\
 & & & & \\
 & & & & \\
 & & & &
 \end{array} \right]$$

$\underbrace{\hspace{10em}}_k$
} k