



OR



$$L = \begin{bmatrix} L_1 & & \ddots & & 0 \\ & L_2 & & \ddots & \\ \ddots & & 0 & & \\ & & & \ddots & \\ 0 & & & & L_3 \end{bmatrix}$$

$$\begin{bmatrix} 1 \\ 0 \\ \vdots \\ 0 \end{bmatrix} \quad \begin{bmatrix} 0 \\ \vdots \\ 0 \\ 1 \\ 0 \\ \vdots \\ 0 \end{bmatrix} \quad \begin{bmatrix} 0 \\ \vdots \\ 0 \\ 1 \end{bmatrix}$$

First three eigenvectors