$Out[\bullet] = \{-1, 1, 0\}$ 

Normalize /@ Figenvectors 
$$\begin{bmatrix} 1 \\ --- \end{bmatrix}$$
 {{0, 1, 0}, {1, 0, 1}, {0, 1, 0}

Normalize /@ Eigenvectors 
$$\left[\frac{1}{\sqrt{2}}\;\{\{0,\,1,\,0\},\,\{1,\,0,\,1\},\,\{0,\,1,\,0\}\}\right]$$
 上正规化 上特征向量

Out[\*]=  $\left\{ \left\{ \frac{1}{2}, -\frac{1}{\sqrt{2}}, \frac{1}{2} \right\}, \left\{ \frac{1}{2}, \frac{1}{\sqrt{2}}, \frac{1}{2} \right\}, \left\{ -\frac{1}{\sqrt{2}}, 0, \frac{1}{\sqrt{2}} \right\} \right\}$