Disconnected Webs

Ex: Consider the web below which is disconnected:

$$A = \begin{bmatrix} 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{1}{2} & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & \frac{1}{2} & 0 \end{bmatrix}$$
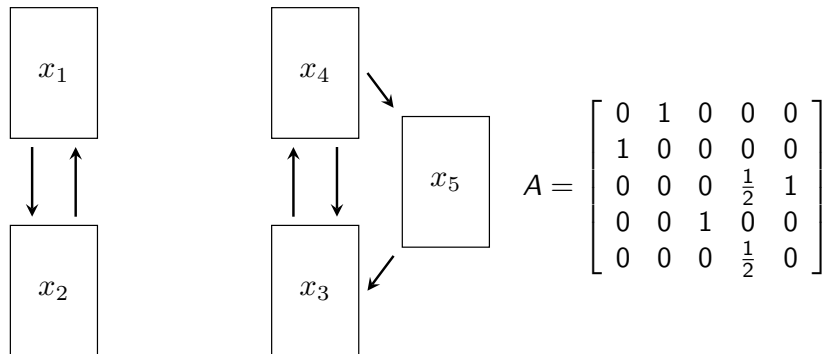
Exercise: Demonstrate for this web that the eigenspace corresponding to eigenvalue $\lambda = 1$ is two dimensional. This leads to non-uniqueness of importance vectors.