Step 1

for $i = \{0, \dots N-1\}$

$$\begin{cases} a_{ji} = -\dfrac{a_{ji}}{a_{ii}} & \text{for all } j > i \\ a_{jk} = a_{jk} + a_{ji}\, a_{ik} & \text{for all } j,k > i \end{cases}$$

$i = 0$

$$A_0 = \begin{bmatrix} 0 & * & * & * \\ 1 & * & * & * \\ 2 & * & * & * \end{bmatrix}$$

(columns: 0, 1, 2; $j > i$; $j, k > i$)

$i = 1$

$$A_1 = \begin{bmatrix} 0 & * & * & * \\ 1 & * & * & * \\ 2 & * & * & * \end{bmatrix}$$

(columns: 0, 1, 2; $j > i$; $j, k > i$)

Step 2

for $i = \{N-1, \dots 0\}$

$$x_i = -\sum_{j=i+1}^{N} a_{ij} x_j \Big/ a_{ii}$$

$$\begin{bmatrix} * & * & * \\ * & * & * \\ * & * & * \end{bmatrix} \begin{bmatrix} x_0 \\ x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

(A, x, b)

Set $v_m = 1$

Step 3

for $i = \{0, 1, \dots, N\}$

$$\pi_i = \frac{x_i}{\sum_{j=0}^{N} x_j}$$