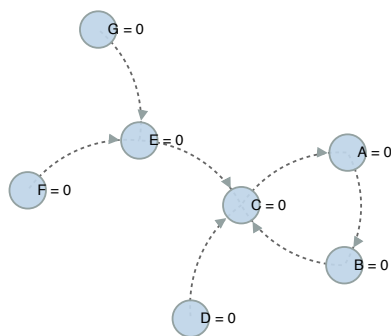


Traversal Algorithm

article		first link
A	→	B
B	→	C
C	→	A
D	→	C
E	→	C
F	→	E
G	→	E

original sample network



Traversal Visit Vectors

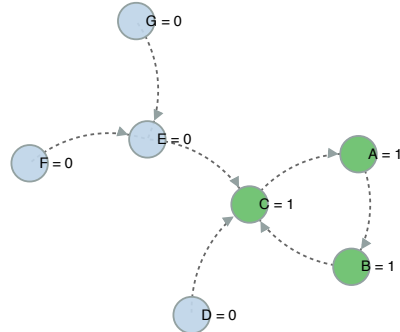
follow the first link path until a repeated article (or an invalid link)

$$\begin{bmatrix} \vec{A}_{\text{visit}} \\ \vec{B}_{\text{visit}} \\ \vec{C}_{\text{visit}} \\ \vec{D}_{\text{visit}} \\ \vec{E}_{\text{visit}} \\ \vec{F}_{\text{visit}} \\ \vec{G}_{\text{visit}} \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

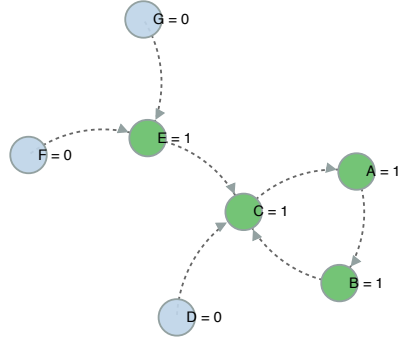
The number of **traversal visits** for article $A = \sum_{i=1}^{i=7} \vec{A}_{\text{visit}, i} = 7$

(sum of entries in \vec{A}_{visit})

traversal visit path for article A



traversal visit path for article G

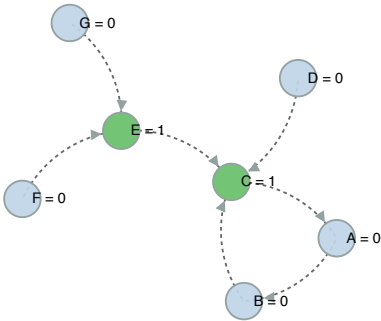


Traversal Funnel Vectors

follow the first link path up the start of a cycle (or invalid link)

$$\begin{bmatrix} A_{\text{funnel}} \\ B_{\text{funnel}} \\ C_{\text{funnel}} \\ D_{\text{funnel}} \\ E_{\text{funnel}} \\ F_{\text{funnel}} \\ G_{\text{funnel}} \end{bmatrix} = \begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

traversal funnel path for article G



The number of **traversal funnels** for article $E = \sum_{i=1}^{i=7} \vec{E}_{\text{funnel}, i} = 2$
(sum of entries in \vec{E}_{funnel})