there, NS will converge to B-1.

$$\sum_{k=0}^{0} A^{k} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$
 (Since $A^{\circ} = I$)

$$\sum_{k=0}^{1} A^{k} =
\begin{bmatrix}
1.1 & 0.2 & 0.3 \\
-0.1 & 1 & 0.1 \\
-0.3 & -0.2 & 0.9
\end{bmatrix}$$