$$SAY A = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \quad ||A||_{\infty} = 1$$

$$SAY A = \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \quad THEN \quad POT(A-ZI) = 0$$

$$POT \begin{bmatrix} 1-2 & 0 \\ 0 & 0 \end{bmatrix} = 0$$

$$SO, \quad P(A) = \left\{ MAX[2] \right\} = 0$$