$P = [0.1 \quad 0.5 \quad 1]$

$S = [0.3, 0.8]$

$$R = \begin{bmatrix} 0.1 & 0.1 \\ 0.3 & 0.5 \\ 0.3 & 0.6 \end{bmatrix}$$

$P' = (P' \circ R')$

$= S_1' = \begin{matrix} 0.1 \\ 0.3 \\ 0.3 \end{matrix} \Big\} \max \left[\begin{matrix} \min(0.1, 0.1) \\ (0.3, 0.3) \\ (1, 0.3) \end{matrix} \right\} \max = 0.8$

$S_2' = \begin{matrix} 0.1 \\ = 0.5 \\ = 0.8 \end{matrix} \Big\} = 0.8$ max

$\therefore R = \begin{bmatrix} 0.1 & 0.1 \\ 0.3 & 0.5 \\ 0.3 & 0.8 \end{bmatrix}$