$$x = \begin{bmatrix} 1 & 2 \\ y = \begin{bmatrix} 10, 100 \end{bmatrix} \\ S = \begin{bmatrix} x, y \end{bmatrix} \\ C = \begin{bmatrix} x, y \end{bmatrix}$$

$$x = 1$$

$$y = 10$$

$$x = 1$$

$$y = 10$$

$$y = 10$$

$$x = 2$$

$$y = 10$$

$$y = 10$$

$$x = 2$$

$$y = 10$$

$$y = 100$$

$$x = 1$$

$$y = 100$$

$$x = 1$$

 $out_{comb} = [11, 101, 12, 102]$