

$$\begin{array}{c} 12 \\ 3 \end{array} \Big|$$
$$\begin{array}{c} 3 \\ 3 \end{array} \Big|$$
$$\begin{array}{c} 1 \\ 12 \\ 1 \end{array} \Big| \color{red}1$$
$$\begin{array}{c} 1 \\ 3 \\ 1 \end{array} \Big| \color{red}1$$
$$\begin{array}{c} 1 \\ 12 \end{array} \Big| \color{red}12$$
$$\begin{array}{c} 1 \\ 3 \end{array} \Big| \color{red}1 \\ \color{red}2$$
