

$$\begin{array}{l}
 g_1 \\
 g_2
 \end{array}
 = \left(\begin{array}{cccccc}
 1 & 2 & 3 & 4 & 5 & 6 \\
 2 & 1 & 3 & 5 & 6 & 4
 \end{array} \right) = \left(\begin{array}{cccccc}
 1 & 2 & 3 & 4 & 5 & 6 \\
 2 & 1 & 3 & 5 & 6 & 4 \\
 3 & 4 & 5 & 6 & 1 & 2
 \end{array} \right) = \left. \left(\begin{array}{cccccc}
 1 & 2 & 3 & 4 & 5 & 6 \\
 2 & 1 & 3 & 5 & 6 & 4 \\
 4 & 3 & 5 & 1 & 2 & 6
 \end{array} \right) \right\} \Downarrow \sigma_2 \sigma_1 = \left(\begin{array}{cccccc}
 1 & 2 & 3 & 4 & 5 & 6 \\
 4 & 3 & 5 & 1 & 2 & 6
 \end{array} \right)$$