$$\circ$$

$\circ$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$

$\circ$	$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$
$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$
$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$
$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$
$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$
$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$
$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&2&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&1&3\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&3&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\3&1&2\end{pmatrix}$	$\begin{pmatrix}1&2&3\\2&3&1\end{pmatrix}$	$\begin{pmatrix}1&2&3\\1&2&3\end{pmatrix}$

$\times$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$
$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$
$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$
$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$
$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$
$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$
$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$
$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$
$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -i \\ -i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & i \\ i & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	$\begin{pmatrix} i & 0 \\ 0 & -i \end{pmatrix}$	$\begin{pmatrix} -i & 0 \\ 0 & i \end{pmatrix}$	$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$

()	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	(2,3,4)	(1,4,3)	(1,3,2)	(1,2,4)	(2,4,3)	(1,2,3)	(1,4,2)	(1,3,4)	(3,4)	(1,4,2,3)	(1,2)	(1,3,2,4)	(2,4)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,4)
(1,3)(2,4)	()	(1,4)(2,3)	(1,2)(3,4)	(1,4,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,4,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,2)	(1,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,2,4,3)	(2,3)	(1,4)	(1,3,4,2)
(1,2)(3,4)	(1,4)(2,3)	()	(1,3)(2,4)	(1,3,2)	(1,2,4)	(2,3,4)	(1,4,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,4,2,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)	(1,3,4,2)	(1,4)	(2,3)	(1,2,4,3)
(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	()	(1,2,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,3,4)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,2,4)	(1,2)	(1,4,2,3)	(3,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	(2,4)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,3)
(2,3,4)	(1,3,2)	(1,2,4)	(1,4,3)	(2,4,3)	(1,4,2)	(1,3,4)	(1,2,3)	()	(1,2)(3,4)	(1,4)(2,3)	(1,3)(2,4)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,3)	(2,3)	(1,3,4,2)	(1,4)	(1,2,4,3)	(3,4)	(1,2)	(1,3,2,4)	(1,4,2,3)
(1,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,2,3)	(1,3,4)	(1,4,2)	(2,4,3)	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	()	(1,3)	(1,2,3,4)	(1,4,3,2)	(2,4)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3)	(1,4,2,3)	(1,3,2,4)	(1,2)	(3,4)
(1,3,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,4,2)	(2,4,3)	(1,2,3)	(1,3,4)	(1,2)(3,4)	()	(1,3)(2,4)	(1,4)(2,3)	(1,4,3,2)	(2,4)	(1,3)	(1,2,3,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,4)	(1,2)	(3,4)	(1,4,2,3)	(1,3,2,4)
(1,2,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,3,4)	(1,2,3)	(2,4,3)	(1,4,2)	(1,4)(2,3)	(1,3)(2,4)	()	(1,2)(3,4)	(1,2,3,4)	(1,3)	(2,4)	(1,4,3,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,2)
(2,4,3)	(1,3,4)	(1,2,3)	(1,4,2)	()	(1,4,3)(2,3)	(1,3)(2,4)	(1,2)(3,4)	(2,3,4)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3)	(1,4)	(1,2,4,3)	(1,3,4,2)	(3,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(2,4)	(1,2,3,4)	(1,3)	(1,4,3,2)
(1,2,3)	(1,4,2)	(2,4,3)	(1,3,4)	(1,3)(2,4)	(1,2)(3,4)	()	(1,4)(2,3)	(1,4,3)	(1,3,2)	(2,3,4)	(1,2,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,2,4)	(1,3)	(1,4,3,2)	(2,4)	(1,2,3,4)
(1,4,2)	(1,2,3)	(1,3,4)	(2,4,3)	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)	()	(1,3,2)	(1,4,3)	(1,2,4)	(2,3,4)	(1,3,4,2)	(1,2,4,3)	(1,4)	(2,3)	(1,2)	(1,4,2,3)	(1,3,2,4)	(3,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(2,4)
(1,3,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,4)(2,3)	()	(1,2)(3,4)	(1,3)(2,4)	(1,2,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,4)	(2,3)	(1,3,4,2)	(1,2,4,3)	(3,4)	(1,2)	(1,4,2,3)	(1,2,3,4)	(2,4)	(1,4,3,2)	(1,3)
(3,4)	(1,3,2,4)	(1,2)	(1,4,2,3)	(2,3)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	()	(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	(2,4,3)	(1,3,4)	(1,4,2)	(1,2,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,4,3)
(1,4,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,2,4,3)	(1,3,4,2)	(1,4)	(2,3)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	()	(1,2,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,4,3)	(1,3,2)	(1,2,4)	(2,3,4)
(1,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,3,4,2)	(1,2,4,3)	(2,3)	(1,4)	(1,4,3,2)	(1,3)	(2,4)	(1,2,3,4)	(1,2)(3,4)	(1,3)(2,4)	()	(1,4)(2,3)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,2,4)
(1,3,2,4)	(3,4)	(1,4,2,3)	(1,2)	(1,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,2,3,4)	(2,4)	(1,3)	(1,4,3,2)	(1,4)(2,3)	()	(1,3)(2,4)	(1,2)(3,4)	(1,3,4)	(2,4,3)	(1,2,3)	(1,4,2)	(2,3,4)	(1,2,4)	(1,4,3)	(1,3,2)
(2,4)	(1,3)	(1,2,3,4)	(1,4,3,2)	(3,4)	(1,4,2,3)	(1,3,2,4)	(1,2)	(2,3)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,3,2)	()	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	(2,4,3)	(1,2,3)	(1,3,4)	(1,4,2)
(1,3)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,4,2,3)	(3,4)	(1,2)	(1,3,2,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,2,4)	(1,3)(2,4)	()	(1,2)(3,4)	(1,4)(2,3)	(1,2,3)	(2,4,3)	(1,4,2)	(1,3,4)
(1,4,3,2)	(1,2,3,4)	(1,3)	(2,4)	(1,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,3,4,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,2)	(1,2,4)	(1,4,3)	(2,3,4)	(1,2)(3,4)	(1,4)(2,3)	()	(1,3)(2,4)	(1,4,2)	(1,3,4)	(2,4,3)	(1,2,3)
(1,2,3,4)	(1,4,3,2)	(2,4)	(1,3)	(1,3,2,4)	(1,2)	(3,4)	(1,4,2,3)	(1,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,4,3)	(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	()	(1,3,4)	(1,4,2)	(1,2,3)	(2,4,3)
(2,3)	(1,3,4,2)	(1,2,4,3)	(1,4)	(2,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(3,4)	(1,2)	(1,4,2,3)	(1,3,2,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,3,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,2,4)	()	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)
(1,2,4,3)	(2,3)	(1,4)	(1,3,4,2)	(1,3)	(1,2,3,4)	(2,4)	(1,4,3,2)	(1,4,2,3)	(3,4)	(1,2)	(1,2,3)	(1,3,4)	(2,4,3)	(1,4,2)	(1,4,3)	(1,2,4)	(2,3,4)	(1,3,2)	(1,3)(2,4)	(1,4)(2,3)	()	(1,2)(3,4)
(1,3,4,2)	(1,4)	(2,3)	(1,2,4,3)	(1,4,3,2)	(1,2)	(1,2,3,4)	(2,4)	(1,3)	(2,3,4)	(1,3,2,4)	(1,4,2,3)	(1,4,2)	(2,4,3)	(1,3,4)	(1,2,3)	(1,3,2)	(2,3,4)	(1,2,4)	(1,4,3)	(1,2)(3,4)	(1,4)(2,3)	()	(1,3)(2,4)
(1,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,2,3,4)	(1,3)	(1,4,3,2)	(2,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,4)	(1,2,3)	(1,4,2)	(2,4,3)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3,4)	(1,4)(2,3)	(1,3)(2,4)	(1,2)(3,4)	()

()	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	(2,3,4)	(1,4,3)	(1,3,2)	(1,2,4)	(2,4,3)	(1,2,3)	(1,4,2)	(1,3,4)	(3,4)	(1,4,2,3)	(1,2)	(1,3,2,4)	(2,4)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,4)
(1,3)(2,4)	()	(1,4)(2,3)	(1,2)(3,4)	(1,4,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,4,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,2)	(1,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,2,4,3)	(2,3)	(1,4)	(1,3,4,2)
(1,2)(3,4)	(1,4)(2,3)	()	(1,3)(2,4)	(1,3,2)	(1,2,4)	(2,3,4)	(1,4,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,4,2,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)	(1,3,4,2)	(1,4)	(2,3)	(1,2,4,3)
(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	()	(1,2,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,3,4)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,2,4)	(1,2)	(1,4,2,3)	(3,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	(2,4)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,3)
(2,3,4)	(1,3,2)	(1,2,4)	(1,4,3)	(2,4,3)	(1,4,2)	(1,3,4)	(1,2,3)	()	(1,2)(3,4)	(1,4)(2,3)	(1,3)(2,4)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,3)	(2,3)	(1,3,4,2)	(1,4)	(1,2,4,3)	(3,4)	(1,2)	(1,3,2,4)	(1,4,2,3)
(1,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,2,3)	(1,3,4)	(1,4,2)	(2,4,3)	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	()	(1,3)	(1,2,3,4)	(1,4,3,2)	(2,4)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3)	(1,4,2,3)	(1,3,2,4)	(1,2)	(3,4)
(1,3,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,4,2)	(2,4,3)	(1,2,3)	(1,3,4)	(1,2)(3,4)	()	(1,3)(2,4)	(1,4)(2,3)	(1,4,3,2)	(2,4)	(1,3)	(1,2,3,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,4)	(1,2)	(3,4)	(1,4,2,3)	(1,3,2,4)
(1,2,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,3,4)	(1,2,3)	(2,4,3)	(1,4,2)	(1,4)(2,3)	(1,3)(2,4)	()	(1,2)(3,4)	(1,2,3,4)	(1,3)	(2,4)	(1,4,3,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,2)
(2,4,3)	(1,3,4)	(1,2,3)	(1,4,2)	()	(1,4)(2,3)	(1,3)(2,4)	(1,2)(3,4)	(2,3,4)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3)	(1,4)	(1,2,4,3)	(1,3,4,2)	(3,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(2,4)	(1,2,3,4)	(1,3)	(1,4,3,2)
(1,2,3)	(1,4,2)	(2,4,3)	(1,3,4)	(1,3)(2,4)	(1,2)(3,4)	()	(1,4)(2,3)	(1,4,3)	(1,3,2)	(2,3,4)	(1,2,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,2,4)	(1,3)	(1,4,3,2)	(2,4)	(1,2,3,4)
(1,4,2)	(1,2,3)	(1,3,4)	(2,4,3)	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)	()	(1,3,2)	(1,4,3)	(1,2,4)	(2,3,4)	(1,3,4,2)	(1,2,4,3)	(1,4)	(2,3)	(1,2)	(1,4,2,3)	(1,3,2,4)	(3,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(2,4)
(1,3,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,4)(2,3)	()	(1,2)(3,4)	(1,3)(2,4)	(1,2,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,4)	(2,3)	(1,3,4,2)	(1,2,4,3)	(1,3,2,4)	(3,4)	(1,2)	(1,4,2,3)	(1,2,3,4)	(2,4)	(1,4,3,2)	(1,3)
(3,4)	(1,3,2,4)	(1,2)	(1,4,2,3)	(2,3)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	()	(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	(2,4,3)	(1,3,4)	(1,4,2)	(1,2,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,4,3)
(1,4,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,2,4,3)	(1,3,4,2)	(1,4)	(2,3)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	()	(1,2,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,4,3)	(1,3,2)	(1,2,4)	(2,3,4)
(1,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,3,4,2)	(1,2,4,3)	(2,3)	(1,4)	(1,4,3,2)	(1,3)	(2,4)	(1,2,3,4)	(1,2)(3,4)	(1,3)(2,4)	()	(1,4)(2,3)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,2,4)
(1,3,2,4)	(3,4)	(1,4,2,3)	(1,2)	(1,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,2,3,4)	(2,4)	(1,3)	(1,4,3,2)	(1,4)(2,3)	()	(1,3)(2,4)	(1,2)(3,4)	(1,3,4)	(2,4,3)	(1,2,3)	(1,4,2)	(1,2,4)	(2,3,4)	(1,4,3)	(1,3,2)
(2,4)	(1,3)	(1,2,3,4)	(1,4,3,2)	(3,4)	(1,4,2,3)	(1,3,2,4)	(1,2)	(2,3)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,3,2)	()	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	(2,4,3)	(1,2,3)	(1,3,4)	(1,4,2)
(1,3)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,4,2,3)	(3,4)	(1,2)	(1,3,2,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,2,4)	(1,3)(2,4)	()	(1,2)(3,4)	(1,4)(2,3)	(1,2,3)	(2,4,3)	(1,4,2)	(1,3,4)
(1,4,3,2)	(1,2,3,4)	(1,3)	(2,4)	(1,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,3,4,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,2)	(1,2,4)	(1,4,3)	(2,3,4)	(1,2)(3,4)	(1,4)(2,3)	(1,3)(2,4)	()	(1,4,2)	(1,3,4)	(1,2,3)	(2,4,3)
(1,2,3,4)	(1,4,3,2)	(2,4)	(1,3)	(1,3,2,4)	(1,2)	(3,4)	(1,4,2,3)	(1,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,4,3)	(1,4)(2,3)	(1,2)(3,4)	()	(1,3)(2,4)	(1,3,4)	(1,4,2)	(2,4,3)	(1,2,3)
(2,3)	(1,3,4,2)	(1,2,4,3)	(1,4)	(2,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(3,4)	(1,2)	(1,4,2,3)	(1,3,2,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,3,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,2,4)	()	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)
(1,2,4,3)	(1,4)	(2,3)	(1,3,4,2)	(1,3)	(1,2,3,4)	(2,4)	(1,4,3,2)	(1,4,2,3)	(1,3,2,4)	(3,4)	(1,2)	(1,2,3)	(1,3,4)	(2,4,3)	(1,4,2)	(1,4,3)	(1,2,4)	(2,3,4)	(1,3,2)	(1,3)(2,4)	(1,4)(2,3)	()	(1,2)(3,4)
(1,3,4,2)	(2,3)	(1,4)	(1,2,4,3)	(1,4,3,2)	(2,4)	(1,2,3,4)	(1,3)	(1,2)	(3,4)	(1,3,2,4)	(1,4,2,3)	(1,4,2)	(2,4,3)	(1,3,4)	(1,2,3)	(1,3,2)	(2,3,4)	(1,2,4)	(1,4,3)	(1,2)(3,4)	()	(1,4)(2,3)	(1,3)(2,4)
(1,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,2,3,4)	(1,3)	(1,4,3,2)	(2,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,4)	(1,2,3)	(1,4,2)	(2,4,3)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3,4)	(1,4)(2,3)	(1,3)(2,4)	(1,2)(3,4)	()

()	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	(2,3,4)	(1,4,3)	(1,3,2)	(1,2,4)	(2,4,3)	(1,2,3)	(1,4,2)	(1,3,4)	(3,4)	(1,4,2,3)	(1,2)	(1,3,2,4)	(2,4)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,4)
(1,3)(2,4)	()	(1,4)(2,3)	(1,2)(3,4)	(1,4,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,4,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,2)	(1,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,2,4,3)	(2,3)	(1,4)	(1,3,4,2)
(1,2)(3,4)	(1,4)(2,3)	()	(1,3)(2,4)	(1,3,2)	(1,2,4)	(2,3,4)	(1,4,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,4,2,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)	(1,3,4,2)	(1,4)	(2,3)	(1,2,4,3)
(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	()	(1,2,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,3,4)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,2,4)	(1,2)	(1,4,2,3)	(3,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	(2,4)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,3)
(2,3,4)	(1,3,2)	(1,2,4)	(1,4,3)	(2,4,3)	(1,4,2)	(1,3,4)	(1,2,3)	()	(1,2)(3,4)	(1,4)(2,3)	(1,3)(2,4)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,3)	(2,3)	(1,3,4,2)	(1,4)	(1,2,4,3)	(3,4)	(1,2)	(1,3,2,4)	(1,4,2,3)
(1,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,2,3)	(1,3,4)	(1,4,2)	(2,4,3)	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	()	(1,3)	(1,2,3,4)	(1,4,3,2)	(2,4)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3)	(1,4,2,3)	(1,3,2,4)	(1,2)	(3,4)
(1,3,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,4,2)	(2,4,3)	(1,2,3)	(1,3,4)	(1,2)(3,4)	()	(1,3)(2,4)	(1,4)(2,3)	(1,4,3,2)	(2,4)	(1,3)	(1,2,3,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,4)	(1,2)	(1,4,2,3)	(3,4)	(1,3,2,4)
(1,2,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,3,4)	(1,2,3)	(2,4,3)	(1,4,2)	(1,4)(2,3)	(1,3)(2,4)	()	(1,2)(3,4)	(1,2,3,4)	(1,3)	(2,4)	(1,4,3,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,2)
(2,4,3)	(1,3,4)	(1,2,3)	(1,4,2)	()	(1,4)(2,3)	(1,3)(2,4)	(1,2)(3,4)	(2,3,4)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3)	(1,4)	(1,2,4,3)	(1,3,4,2)	(3,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(2,4)	(1,2,3,4)	(1,3)	(1,4,3,2)
(1,2,3)	(1,4,2)	(2,4,3)	(1,3,4)	(1,3)(2,4)	(1,2)(3,4)	()	(1,4)(2,3)	(1,4,3)	(1,3,2)	(2,3,4)	(1,2,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,2,4)	(1,3)	(1,4,3,2)	(2,4)	(1,2,3,4)
(1,4,2)	(1,2,3)	(1,3,4)	(2,4,3)	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)	()	(1,3,2)	(1,4,3)	(1,2,4)	(2,3,4)	(1,3,4,2)	(1,2,4,3)	(1,4)	(2,3)	(1,2)	(1,4,2,3)	(1,3,2,4)	(3,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(2,4)
(1,3,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,4)(2,3)	()	(1,2)(3,4)	(1,3)(2,4)	(1,2,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,4)	(2,3)	(1,3,4,2)	(1,2,4,3)	(1,3,2,4)	(3,4)	(1,2)	(1,4,2,3)	(1,2,3,4)	(2,4)	(1,4,3,2)	(1,3)
(3,4)	(1,3,2,4)	(1,2)	(1,4,2,3)	(2,3)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	()	(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	(2,4,3)	(1,3,4)	(1,4,2)	(1,2,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,4,3)
(1,4,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,2,4,3)	(1,3,4,2)	(1,4)	(2,3)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	()	(1,2,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,4,3)	(1,3,2)	(1,2,4)	(2,3,4)
(1,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,3,4,2)	(1,2,4,3)	(2,3)	(1,4)	(1,4,3,2)	(1,3)	(2,4)	(1,2,3,4)	(1,2)(3,4)	(1,3)(2,4)	()	(1,4)(2,3)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,2,4)
(1,3,2,4)	(3,4)	(1,4,2,3)	(1,2)	(1,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,2,3,4)	(2,4)	(1,3)	(1,4,3,2)	(1,4)(2,3)	()	(1,3)(2,4)	(1,2)(3,4)	(1,3,4)	(2,4,3)	(1,2,3)	(1,4,2)	(1,2,4)	(2,3,4)	(1,4,3)	(1,3,2)
(2,4)	(1,3)	(1,2,3,4)	(1,4,3,2)	(3,4)	(1,4,2,3)	(1,3,2,4)	(1,2)	(2,3)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,3,2)	()	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	(2,4,3)	(1,2,3)	(1,3,4)	(1,4,2)
(1,3)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,4,2,3)	(3,4)	(1,2)	(1,3,2,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,2,4)	(1,3)(2,4)	()	(1,2)(3,4)	(1,4)(2,3)	(1,2,3)	(2,4,3)	(1,4,2)	(1,3,4)
(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)	(1,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,3,4,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,2)	(1,2,4)	(1,4,3)	(2,3,4)	(1,4)(2,3)	(1,2)(3,4)	()	(1,3)(2,4)	(1,4,2)	(1,3,4)	(1,2,3)	(2,4,3)
(1,2,3,4)	(1,4,3,2)	(1,3)	(2,4)	(1,3,2,4)	(1,2)	(3,4)	(1,4,2,3)	(1,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,4,3)	(1,2)(3,4)	(1,4)(2,3)	(1,3)(2,4)	()	(1,3,4)	(1,4,2)	(2,4,3)	(1,2,3)
(2,3)	(1,3,4,2)	(1,2,4,3)	(1,4)	(2,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(3,4)	(1,2)	(1,4,2,3)	(1,3,2,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,3,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,2,4)	()	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)
(1,2,4,3)	(1,4)	(2,3)	(1,3,4,2)	(1,3)	(1,2,3,4)	(2,4)	(1,4,3,2)	(1,4,2,3)	(1,3,2,4)	(3,4)	(1,2)	(1,2,3)	(1,3,4)	(2,4,3)	(1,4,2)	(1,4,3)	(1,2,4)	(2,3,4)	(1,3,2)	(1,3)(2,4)	(1,4)(2,3)	()	(1,2)(3,4)
(1,3,4,2)	(2,3)	(1,4)	(1,2,4,3)	(1,4,3,2)	(2,4)	(1,2,3,4)	(1,3)	(1,2)	(3,4)	(1,3,2,4)	(1,4,2,3)	(1,4,2)	(2,4,3)	(1,3,4)	(1,2,3)	(1,3,2)	(2,3,4)	(1,2,4)	(1,4,3)	(1,2)(3,4)	()	(1,4)(2,3)	(1,3)(2,4)
(1,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,2,3,4)	(1,3)	(1,4,3,2)	(2,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,4)	(1,2,3)	(1,4,2)	(2,4,3)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3,4)	(1,4)(2,3)	(1,3)(2,4)	(1,2)(3,4)	()

()	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	(2,3,4)	(1,4,3)	(1,3,2)	(1,2,4)	(2,4,3)	(1,2,3)	(1,4,2)	(1,3,4)	(3,4)	(1,4,2,3)	(1,2)	(1,3,2,4)	(2,4)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,4)
(1,3)(2,4)	()	(1,4)(2,3)	(1,2)(3,4)	(1,4,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,4,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,2)	(1,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,2,4,3)	(2,3)	(1,4)	(1,3,4,2)
(1,2)(3,4)	(1,4)(2,3)	()	(1,3)(2,4)	(1,3,2)	(1,2,4)	(2,3,4)	(1,4,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,4,2,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)	(1,3,4,2)	(1,4)	(2,3)	(1,2,4,3)
(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	()	(1,2,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,3,4)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,2,4)	(1,2)	(1,4,2,3)	(3,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	(2,4)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,3)
(2,3,4)	(1,3,2)	(1,2,4)	(1,4,3)	(2,4,3)	(1,4,2)	(1,3,4)	(1,2,3)	()	(1,2)(3,4)	(1,4)(2,3)	(1,3)(2,4)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,3)	(2,3)	(1,3,4,2)	(1,4)	(1,2,4,3)	(3,4)	(1,2)	(1,3,2,4)	(1,4,2,3)
(1,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,2,3)	(1,3,4)	(1,4,2)	(2,4,3)	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	()	(1,3)	(1,2,3,4)	(1,4,3,2)	(2,4)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3)	(1,4,2,3)	(1,3,2,4)	(1,2)	(3,4)
(1,3,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,4,2)	(2,4,3)	(1,2,3)	(1,3,4)	(1,2)(3,4)	()	(1,3)(2,4)	(1,4)(2,3)	(1,4,3,2)	(2,4)	(1,3)	(1,2,3,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,4)	(1,2)	(3,4)	(1,4,2,3)	(1,3,2,4)
(1,2,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,3,4)	(1,2,3)	(2,4,3)	(1,4,2)	(1,4)(2,3)	(1,3)(2,4)	()	(1,2)(3,4)	(1,2,3,4)	(1,3)	(2,4)	(1,4,3,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,2)
(2,4,3)	(1,3,4)	(1,2,3)	(1,4,2)	()	(1,4)(2,3)	(1,3)(2,4)	(1,2)(3,4)	(2,3,4)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3)	(1,4)	(1,2,4,3)	(1,3,4,2)	(3,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(2,4)	(1,2,3,4)	(1,3)	(1,4,3,2)
(1,2,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,3)(2,4)	(1,2)(3,4)	()	(1,4)(2,3)	(1,4,3)	(1,3,2)	(2,3,4)	(1,2,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,2,4)	(1,3)	(1,4,3,2)	(2,4)	(1,2,3,4)
(1,4,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)	()	(1,3,2)	(1,4,3)	(1,2,4)	(2,3,4)	(1,4)	(2,3)	(1,3,4,2)	(1,2,4,3)	(1,2)	(1,4,2,3)	(1,3,2,4)	(3,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(2,4)
(1,3,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,4)(2,3)	()	(1,2)(3,4)	(1,3)(2,4)	(1,2,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,4,2,3)	(1,2,4,3)	(1,4)	(2,3)	(3,4)	(1,3,2,4)	(1,2)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3,4,2)	(1,3)
(3,4)	(1,3,2,4)	(1,2)	(1,4,2,3)	(2,3)	(1,4)	(1,3,4,2)	(1,2,4,3)	(2,4)	(1,2,3,4)	(1,4,3,2)	(1,3)	()	(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	(2,4,3)	(1,3,4)	(1,4,2)	(1,2,3)	(2,3,4)	(1,2,4)	(1,3,2)	(1,4,3)
(1,4,2,3)	(1,2)	(1,3,2,4)	(3,4)	(1,2,4,3)	(1,3,4,2)	(1,4)	(2,3)	(1,3)	(1,4,3,2)	(1,2,3,4)	(2,4)	(1,3)(2,4)	(1,2)(3,4)	(1,4)(2,3)	()	(1,2,3)	(1,4,2)	(1,3,4)	(2,4,3)	(1,4,3)	(1,3,2)	(1,2,4)	(2,3,4)
(1,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,3,4,2)	(1,2,4,3)	(2,3)	(1,4)	(1,4,3,2)	(1,3)	(2,4)	(1,2,3,4)	(1,2)(3,4)	(1,3)(2,4)	()	(1,4)(2,3)	(1,4,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,3,2)	(1,4,3)	(2,3,4)	(1,2,4)
(1,3,2,4)	(3,4)	(1,4,2,3)	(1,2)	(1,4)	(2,3)	(1,2,4,3)	(1,3,4,2)	(1,2,3,4)	(2,4)	(1,3)	(1,4,3,2)	(1,4)(2,3)	()	(1,3)(2,4)	(1,2)(3,4)	(2,4,3)	(1,3,4)	(1,2,3)	(1,4,2)	(2,3,4)	(1,2,4)	(1,4,3)	(1,3,2)
(2,4)	(1,3)	(1,2,3,4)	(1,4,3,2)	(3,4)	(1,4,2,3)	(1,3,2,4)	(1,2)	(2,3)	(1,2,4,3)	(1,4)	(1,3,4,2)	(2,3,4)	(1,4,3)	(1,2,4)	(1,3,2)	()	(1,3)(2,4)	(1,4)(2,3)	(1,2)(3,4)	(2,4,3)	(1,2,3)	(1,3,4)	(1,4,2)
(1,3)	(2,4)	(1,4,3,2)	(1,2,3,4)	(1,4,2,3)	(3,4)	(1,2)	(1,3,2,4)	(1,2,4,3)	(2,3)	(1,3,4,2)	(1,4)	(1,4,3)	(2,3,4)	(1,3,2)	(1,2,4)	(1,3)(2,4)	()	(1,2)(3,4)	(1,4)(2,3)	(1,2,3)	(2,4,3)	(1,4,2)	(1,3,4)
(1,4,3,2)	(1,2,3,4)	(1,3)	(2,4)	(1,2)	(1,3,2,4)	(1,4,2,3)	(3,4)	(1,3,4,2)	(1,4)	(1,2,4,3)	(2,3)	(1,3,2)	(1,2,4)	(1,4,3)	(2,3,4)	(1,2)(3,4)	(1,4)(2,3)	()	(1,3)(2,4)	(1,4,2)	(1,3,4)	(1,2,3)	(2,4,3)
(1,2,3,4)	(1,4,3,2)	(2,4)	(1,3)	(1,3,2,4)	(1,2)	(3,4)	(1,4,2,3)	(1,4)	(1,3,4,2)	(2,3)	(1,2,4,3)	(1,2,4)	(1,3,2)	(2,3,4)	(1,4,3)	(1,4)(2,3)	(1,2)(3,4)	(1,3)(2,4)	()	(1,3,4)	(1,4,2)	(2,4,3)	(1,2,3)
(2,3)	(1,3,4,2)	(1,2,4,3)	(1,4)	(2,4)	(1,4,3,2)	(1,3)	(1,2,3,4)	(3,4)	(1,2)	(1,4,2,3)	(1,3,2,4)	(2,4,3)	(1,4,2)	(1,2,3)	(1,3,4)	(2,3,4)	(1,3,2)	(1,4,3)	(1,2,4)	()	(1,2)(3,4)	(1,3)(2,4)	(1,4)(2,3)
(1,2,4,3)	(1,4)	(2,3)	(1,3,4,2)	(1,3)	(1,2,3,4)	(2,4)	(1,4,3,2)	(1,4,2,3)	(3,4)	(1,3,2,4)	(1,2)	(1,2,3)	(2,4,3)	(1,3,4)	(1,4,2)	(1,3,2)	(2,3,4)	(1,2,4)	(1,4,3)	(1,2)(3,4)	()	(1,4)(2,3)	(1,3)(2,4)
(1,3,4,2)	(2,3)	(1,4)	(1,2,4,3)	(1,4,3,2)	(2,4)	(1,2,3,4)	(1,3)	(1,2)	(3,4)	(1,3,2,4)	(1,4,2,3)	(1,4,2)	(2,3,4)	(1,3,4)	(1,2,3)	(1,4,3)	(1,2,4)	(1,3,2)	(2,4,3)	(1,3)(2,4)	(1,4)(2,3)	()	(1,2)(3,4)
(1,4)	(1,2,4,3)	(1,3,4,2)	(2,3)	(1,2,3,4)	(1,3)	(1,4,3,2)	(2,4)	(1,3,2,4)	(1,4,2,3)	(1,2)	(3,4)	(1,3,4)	(1,2,3)	(1,4,2)	(2,4,3)	(1,2,4)	(1,4,3)	(1,3,2)	(2,3,4)	(1,4)(2,3)	(1,3)(2,4)	(1,2)(3,4)	()

$\circ$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$
$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 3 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 \\ 1 & 2 & 3 \end{pmatrix}$