

$$\begin{array}{c}
\overbrace{(\dots, \dots, \rho_{1,1}(\textcolor{red}{1}), \rho_{1,1}(\textcolor{red}{2}), \dots, \rho_{1,1}(\textcolor{red}{k_{1,1}}), \dots, \rho'_{1,a_1}(\textcolor{blue}{1}), \rho'_{1,a_1}(\textcolor{blue}{2}), \dots, \rho'_{1,a_1}(\textcolor{blue}{k_{1,a_1}}), \dots)}^{\sigma_1(1)\text{-block} \quad \sigma_1(a_1)\text{-block}} \\
\tau(1)\text{-th } n\text{-block} \\
\overbrace{\dots, \dots, \rho_{n,1}(\textcolor{teal}{1}), \rho_{n,1}(\textcolor{teal}{2}), \dots, \rho_{n,1}(\textcolor{teal}{k_{n,1}}), \dots, \rho_{n,a_n}(\textcolor{blue}{1}), \rho_{n,a_n}(\textcolor{blue}{2}), \dots, \rho_{n,a_n}(\textcolor{blue}{k_{n,a_n}}), \dots)}^{\sigma_n(1)\text{-block} \quad \sigma_n(a_n)\text{-block}} \\
\tau(n)\text{-th } n\text{-block}
\end{array}$$