

$$\begin{array}{c}
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\overbrace{(\dots, \rho_{1, \sigma_1^{-1}(1)}(1), \rho_{1, \sigma_1^{-1}(1)}(2), \dots, \rho_{1, \sigma_1^{-1}(1)}(k_{1, \sigma_1^{-1}(1)}), \dots, \rho_{1, \sigma_1^{-1}(a_1)}(1), \rho_{1, \sigma_1^{-1}(a_1)}(2), \dots, \rho_{1, \sigma_1^{-1}(a_1)}(k_{1, \sigma_1^{-1}(a_1)}))}^{(a_1 + \dots + a_{\tau(1)-1} + 1)\text{-th tuple}} \\
\overbrace{\hspace{10em}}^{\tau(1)\text{-th } n\text{-block}}
\end{array} \\
\begin{array}{c}
\overbrace{(\dots, \rho_{n, \sigma_n^{-1}(1)}(1), \rho_{n, \sigma_n^{-1}(1)}(2), \dots, \rho_{n, \sigma_n^{-1}(1)}(k_{n, \sigma_n^{-1}(1)}), \dots, \rho_{n, \sigma_n^{-1}(a_n)}(1), \rho_{n, \sigma_n^{-1}(a_n)}(2), \dots, \rho_{n, \sigma_n^{-1}(a_n)}(k_{n, \sigma_n^{-1}(a_n)}))}^{(a_1 + \dots + a_{\tau(1)-1} + a_{\tau(1)})\text{-th tuple}} \\
\overbrace{\hspace{10em}}^{\tau(n)\text{-th } n\text{-block}}
\end{array}
\end{array}$$