$$(\ldots, \overbrace{\rho_{1,\sigma_{1}^{-1}(1)}(1), \rho_{1,\sigma_{1}^{-1}(1)}(2), \ldots, \rho_{1,\sigma_{1}^{-1}(1)}(k_{1,\sigma_{1}^{-1}(1)}), \ldots, \overbrace{\rho_{1,\sigma_{1}^{-1}(a_{1})}(1), \rho_{1,\sigma_{1}^{-1}(a_{1})}(2), \ldots, \rho_{1,\sigma_{1}^{-1}(a_{1})}(k_{1,\sigma_{1}^{-1}(a_{1})}), \ldots, \rho_{1,\sigma_{1}^{-1}(a_{1})}(1), \rho_{1,\sigma_{1}^{-1}(a_{1})}(2), \ldots, \rho_{1,\sigma_{1}^{-1}(a_{1})}(k_{1,\sigma_{1}^{-1}(a_{1})})}^{\tau(1)\text{-th } n\text{-block}}$$

$$(a_{1}+\cdots+a_{\tau(1)-1}+1)\text{-th tuple} \qquad (a_{1}+\cdots+a_{\tau(1)-1}+a_{\tau(1)})\text{-th tuple}$$

$$\ldots, \overbrace{\rho_{n,\sigma_{n}^{-1}(1)}(1), \rho_{n,\sigma_{n}^{-1}(1)}(2), \ldots, \rho_{n,\sigma_{n}^{-1}(1)}(k_{n,\sigma_{n}^{-1}(1)}), \ldots, \rho_{n,\sigma_{n}^{-1}(a_{n})}(1), \rho_{n,\sigma_{n}^{-1}(a_{n})}(2), \ldots, \rho_{n,\sigma_{n}^{-1}(a_{n})}(k_{n,\sigma_{n}^{-1}(a_{n})}))}^{\tau(n)\text{-th } n\text{-block}}$$