$$(1,2,\ldots,a_1,1',2',\ldots,a_2',\ldots,1',2',\ldots,a_n')$$

$$\downarrow^{\sigma_1} \qquad \downarrow^{\sigma_2} \qquad \cdots \qquad \downarrow^{\sigma_n}$$

$$(\underbrace{\sigma_1(1),\sigma_1(2)),\ldots\sigma_1(a_1)}_{\text{1st block}},\underbrace{\sigma_1'(1),\sigma_1'(2)),\ldots\sigma_1'(a_1)}_{\text{2nd block}},\ldots,\underbrace{\sigma_n'(1),\sigma_n'(2),\ldots,\sigma_n'(a_n)}_{\text{a}_n\text{-th block}})$$

$$\downarrow^{\tau}$$

$$(\ldots,\underbrace{\sigma_1(1),\sigma_1(2)),\ldots\sigma_1(a_1)}_{\tau(1)\text{-th block}},\ldots,\underbrace{\sigma_1'(1),\sigma_1'(2)),\ldots\sigma_1'(a_1)}_{\tau(2)\text{-th block}},\ldots,\underbrace{\sigma_n'(1),\sigma_n'(2),\ldots,\sigma_n'(a_n)}_{\tau(a_n)\text{-th block}},\ldots,)$$