

No point feeding $\sigma_{ij} \sigma_{kl}$ if $i \neq k$!

Feed $\sigma_{23} \sigma_{12} = 3412 \dots$. Feed $\sigma_{13}^{-1} \sigma_{23} \sigma_{12} = 1423 \dots$ to σ_{24}

Feed $\sigma_{23} \sigma_{13} = 4132 \dots$ to σ_{14}

Feed $\sigma_{24} \sigma_{12} = 4213 \dots$. Feed $\sigma_{14}^{-1} \sigma_{24} \sigma_{12} = 1423 \dots$ drop.

$\Rightarrow |G| = 4 \cdot 3 \cdot 1 \cdot 1 = 12$. Is $4123 \in G$?

Write 2431 in terms of $\sigma_{1,2}$.

* Go over the "about" handout.