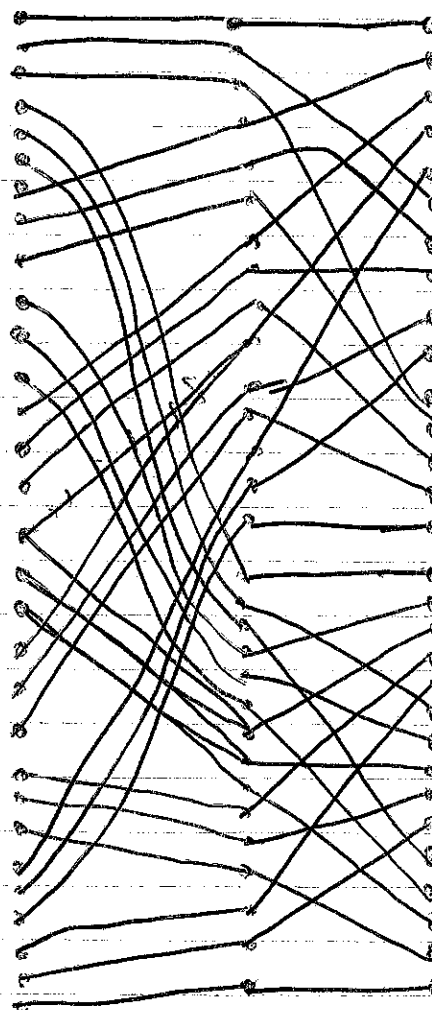


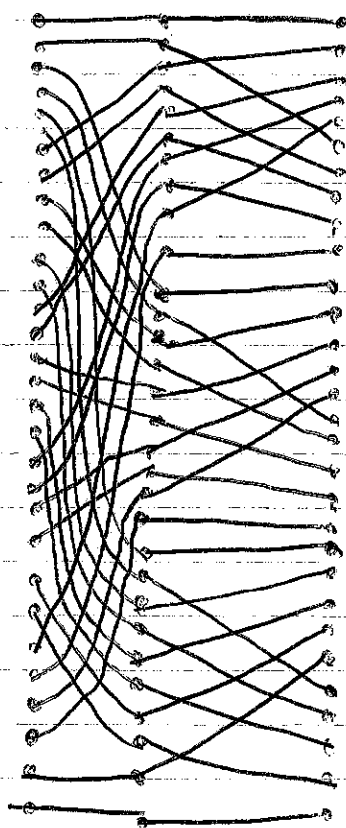
Conjecture:

- $(p, q; r) = (q, p; r)$
- $(k, l, m) = (k, m, l)$
- $(p; r)q_s \circ pr(q; s) = pr(q; s) \circ (p; r)q_s$

These give ps-comm.
Symmetric $\Leftrightarrow (p; q)^{-1} = (q; p)$



$(2, 3, 5)$



$(3, 2, 5)$