$$
\begin{aligned}
& S_{1 \cdots r}=\frac{u_{1}: \cdots: u_{r}}{u_{j} \in S_{j}: u_{1}<\cdots<u_{r}} \\
& S_{1 \cdots r} \xrightarrow{k} S_{1 \cdots r} \\
& K_{1 \cdots r} \neg K \leftrightharpoons S_{1 \cdots r}
\end{aligned}
$$

