

$$\begin{array}{ccccc}
 \mathbb{K}^n & \xrightarrow{\cong} & \mathfrak{G} | \mathbb{K}^{2^n} & \xleftarrow{\cong} & {}_n\mathbb{K} \\
 \downarrow \wr & & \downarrow \text{Ad} \cdot \wr & & \downarrow \wr \\
 \mathbb{L} & \xrightarrow{\cong} & \mathfrak{G} |_{\mathbb{N}} \mathbb{K} \wr \mathbb{L} & \xleftarrow{\cong} & \mathbb{L} \wr \mathbb{K}
 \end{array}$$

$$\begin{array}{ccccc}
 \mathbb{K}^n & \xrightarrow{\cong} & \mathfrak{U} | \mathbb{K}^{2^n} & \xleftarrow{\cong} & {}_n\mathbb{K} \\
 \downarrow \wr & & \downarrow \text{Ad} \cdot \wr & & \downarrow \wr \\
 \mathbb{L} & \xrightarrow{\cong} & \mathfrak{U} |_{\mathbb{N}} \mathbb{K} \wr \mathbb{L} & \xleftarrow{\cong} & \mathbb{L} \wr \mathbb{K}
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