

$$\mathbb{I}^m \mathbb{J} = \mathbb{I} \underbrace{\mathbb{I}^m}_{\mathbb{I}} \mathbb{J} \ni \mathbb{I} \mathbb{I} = \mathbb{I}$$

$$\mathbb{I}^{\mathbb{N}} \mathbb{J} = \sum_{0 \leq m} \mathbb{I}^m \mathbb{J}$$