

$$\mathfrak{h}_{\min} = \frac{x \in \mathfrak{h}}{y \leq x \Rightarrow y = x} = \frac{x \in \mathfrak{h}}{<x = \emptyset}$$

$$\mathfrak{h}_{\max} = \frac{z \in \mathfrak{h}}{z \leq y \Rightarrow z = y} = \frac{z \in \mathfrak{h}}{z^< = \emptyset}$$