**Definition** (Upper closure operator)

The *upper closure operator* ↑ maps a subset to the smallest upper set that

includes it:

 $\uparrow: \mathcal{P}\mathbf{P} \to \mathcal{U}\mathbf{P}$   $S \mapsto \{y \in \mathbf{P} \mid \exists x \in \mathbf{S} : x \leq_{\mathbf{P}} y\}.$