Definition (Order on **DP**) Suppose that **P** and **O** are p

Suppose that **P** and **Q** are posets, and that $\mathbf{d}, \mathbf{e} : \mathbf{P} \longrightarrow \mathbf{Q}$ are design problems. We define the order as follows:

 $\mathbf{d} \leq_{\mathrm{DP}} \mathbf{e}$ $\mathbf{d}(p^*, q) \leq_{\mathrm{Bool}} \mathbf{e}(p^*, q)$

for all $p \in \mathbf{P}, q \in \mathbf{Q}$.