

Definition (Order on **DP**). Suppose that **P** and **Q** are posets, and that **d**, **e** : **P** \rightarrow **Q** are design problems. We define the order as follows:

$$\frac{\mathbf{d} \leq_{\mathbf{DP}} \mathbf{e}}{\mathbf{d}(a^*, b) \leq_{\mathbf{Bool}} \mathbf{e}(a^*, b),}$$

for all $a \in \mathbf{P}, b \in \mathbf{Q}$.