Definition (Order on **DP**). Suppose that A and B are posets, and that $f, g : A \nrightarrow B$ are design problems. We define the order as follows.

$$\frac{f \leq_{\mathbf{DP}} g}{f(a^*, b) \leq_{\mathbf{Bool}} g(a^*, b), \quad \text{for all } a \in A, b \in B}$$