consists of the following constituents:

1. *Objects*: The objects of **DP** are posets.

Definition (Category of design problems). The category of design problems, **DP**,

Morphisms: The morphisms of **DP** are design problems (??).
 Identity morphism: The identity morphism Id_P: P → P is given by ??.

4. Composition operation: Given two morphisms $\mathbf{d}: \mathbf{P} \longrightarrow \mathbf{Q}$ and $\mathbf{e}: \mathbf{Q} \longrightarrow \mathbf{R}$, their composition $\mathbf{d} : \mathbf{e}: \mathbf{P} \longrightarrow \mathbf{R}$ is given by ??.