consists of the following constituents:

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

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

- 2. *Morphisms*: The morphisms of **DP** are design problems (??).
- 3. *Identity morphism*: The identity morphism $Id_P : P \rightarrow P$ is given by ??.
- 3. Identity morphism: The identity morphism $Id_P: P \rightarrow P$ is given by ??. 4. Composition operation: Given two morphisms $f: P \rightarrow Q$ and $g: Q \rightarrow R$,

their composition $f : g : P \rightarrow R$ is given by ??.