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 $Id_A : A \longrightarrow A$ is given by ??.
- 3. Identity morphism: The identity morphism $Id_A : A \rightarrow A$ is given by ??. 4. Composition operation: Given two morphisms $f : A \rightarrow B$ and $g : B \rightarrow C$,

their composition $f ; g : A \longrightarrow C$ is given by ??.