

**Definition** (Catalogue). A *catalogue* is a span in **Pos**. It thus consists of 3 posets **I**, **F**, **R**. We call them implementation space, functionality space, and requirements space, respectively. We need to define two maps **prov** : **I**  $\rightarrow$  **F** (an implementation **provides** a functionality) and **req** : **I**  $\rightarrow$  **R** (an implementation **requires** resources):

