

**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  $\text{prov} : I \rightarrow F$  (an implementation **pro**vides a functionality) and  $\text{req} : I \rightarrow R$  (an implementation **re**quires resources):

