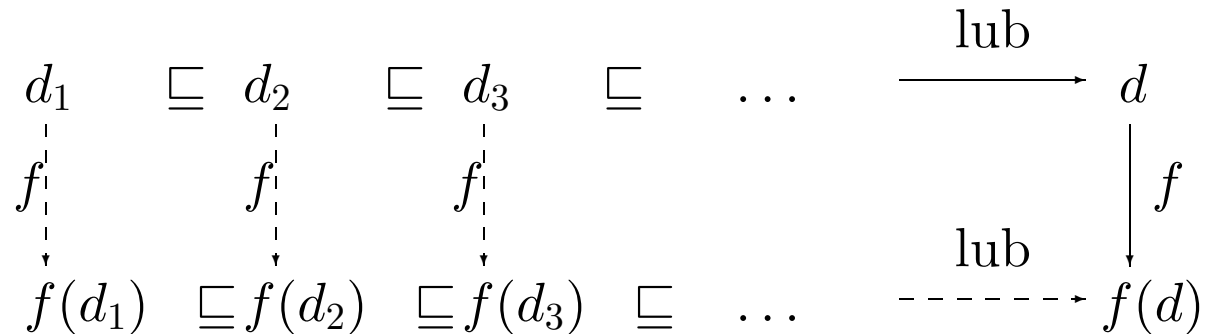


A reflexive partial ordering \sqsubseteq on a set D is *complete* iff

- (1) D has a smallest element \perp_D
- (2) every chain S of D has a least upper bound $\sqcup S \in D$



$f : D_1 \rightarrow D_2$ is *continuous* if $f(\sqcup S) = \sqcup f(S)$ for every chain S of D_1 .

f is *continuous* \Rightarrow f is *monotonic*

\sqsubseteq is a cpo on:

- Base Domains $\mathbb{Z}_\perp, \mathbb{B}_\perp, C_\perp, F_\perp$
- Product Domains $D_1 \times \dots \times D_n$
- Function Domains $\langle D_1 \rightarrow D_2 \rangle$ (*continuous* functions)