Lemma. There is a functor FixFunMinResBack: $\mathbf{Pos}_{9/} \rightarrow \mathbf{DP}$ which maps: 1. An object (poset) in **Pos**_{9/} to the same object (poset) in **DP**.

2. A morphism $g \in \operatorname{Hom}_{\mathbf{Pos}_{\mathcal{O}_I}}(\mathbf{F}; \mathbf{R})$ to the morphism $\mathbf{d}_g \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{F}; \mathbf{R})$,

where:

 $\mathbf{d}_{g}: \mathbf{F}^{\mathrm{op}} \times \mathbf{R} \rightarrow_{\mathbf{Pos}} \mathbf{Bool}$

 $\langle f^*, r \rangle \mapsto r \in g^*(f)$.