Definition (Companion and conjoint). Let **P** and **Q** be posets, and suppose that $f: \mathbb{P} \to_{\mathbf{Pos}} \mathbb{Q}$ is a monotone map. We define its companion in **DP**, denoted $\hat{f}: \mathbf{P} \to \mathbf{O}$, and its *conioint*, denoted $\check{f}: \mathbf{O} \to \mathbf{P}$ as

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	$\widehat{f}(p^*,q) := f(p) \leq_{0} q$	and	$ \widecheck{f}(q^*,p) := q \leq_{\mathbf{P}} f(p). $	