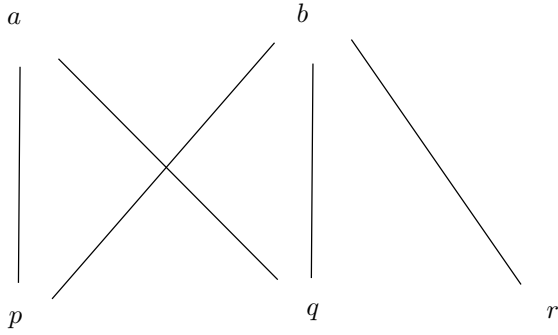


Example 1. There is a separable poset (that is a set with \star being an injection) such that $\star x \subseteq \star y$ does not imply $x \sqsubseteq y$ (where \sqsubseteq denotes our order) for elements x, y of this poset.

Proof. (with help of sci.math partakers) Consider 5-elements poset defined by the following Hasse diagram:



$$\star p = \{p, a, b\}, \star q = \{q, a, b\}, \star r = \{r, b\}, \star a = \{p, q, a, b\}, \star b = \{p, q, a, b, r\}.$$

Thus $\star x = \star y \Rightarrow x = y$ for any x, y in our poset.

$\star a \subseteq \star b$ but not $a \sqsubseteq b$.

□