Exercise 3.124. [206] Prerequisites: [07C], [07D], [07F]. Difficulty:\*. At the beginning of the section we assumed that the ordering < on X be total. The definitions of interval in *[orc]* and *[orp]* however, they can also be given for an order that is not (necessarily) total. What happens in exercise [07] when the order is not total? Which result is true, which is false, and if so what counterexample can we give?