```
IsTO (≤, T): trait
  % ≤ is a total order on T
  introduces __≤__: T, T → Bool
  asserts ∀ x, y, z: T
    x ≤ x;
    (x ≤ y ∧ y ≤ z) ⇒ x ≤ z;
    x ≤ y ∧ y ≤ x == x = y;
    x ≤ y ∨ y ≤ x
  implies IsPO, TotalPreOrder
```