```
Semilattice (T): trait
   assumes PartialOrder
   includes GreatestLowerBound
   introduces
     ⊥: → T
     __⊔ __: T, T → T
   asserts ∀ x, y, z: T
     ⊥ ≤ x;
     x ⊔ y == y ⊔ x;
     x ⊓ y == y ⊓ x;
     x ≤ (x ⊔ y);
     (x ≤ z ∧ y ≤ z) ⇒ (x ⊔ y) ≤ z
   implies
     AbelianMonoid (⊔ for ∘, ⊥ for unit),
     AbelianSemigroup (⊓ for ∘)
```