numAtomsInStoichometric : StoichometricT × ElementT → ℕ
numAtomsInStoichometric (s, e) ≡ s.coeff * numAtomsInCompound (s.Compound, e)

Finish next day H.W.

numAtomsInChemEq : ChemicalEqT × ElementT → ℕ
numAtomsInChemEq (C, e) ≡ +(s : StoichometricT | s ∈ C · numAtomsIn ~~Compound~~ Stoichiometric (s, e))

---

elmInCompound : CompoundT → set of ElementT
elmInCompound (C) ≡ { m : MoleculeT | m ∈ C · m.elm }

---

elmInStoichometric : StoichometricT → set of ElementT
elmInStoichometric (S) ≡ elmInCompound (S.Compound)

---

elmInChemEq : ChemicalEqT → set of ElementT H.W.
elmInChemEq (C) ≡ ∪(s : StoichometricT | s ∈ C · elmInStoichometric (s))

---

isBalancedReactionForElm : ReactionT × ElementT → 𝔹 H.W.
isBalancedReactionForElm (R, e) ≡
numAtomsInChemEq (R[0], e) = numAtomsInChemEq (R[1], e)

---

isBalancedReaction (R) : ReactionT → 𝔹 H.W.

~~∀(e : ElementT~~ (elmInChemEq (R[0]) = elmInChemEq (R

∧(∀(e : ElementT | e ∈ elmInChemEq (R[0]) ·
isBalancedReactionForElm (R, e))