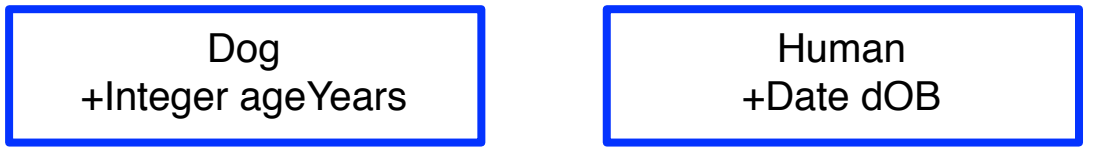
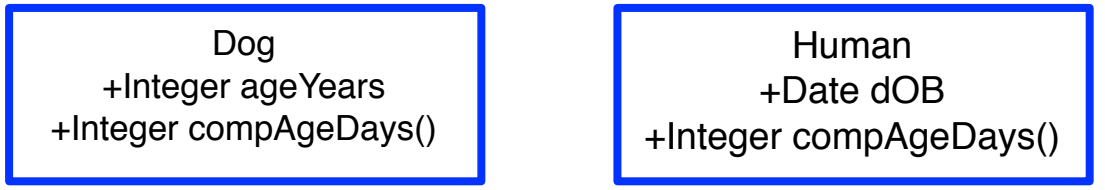
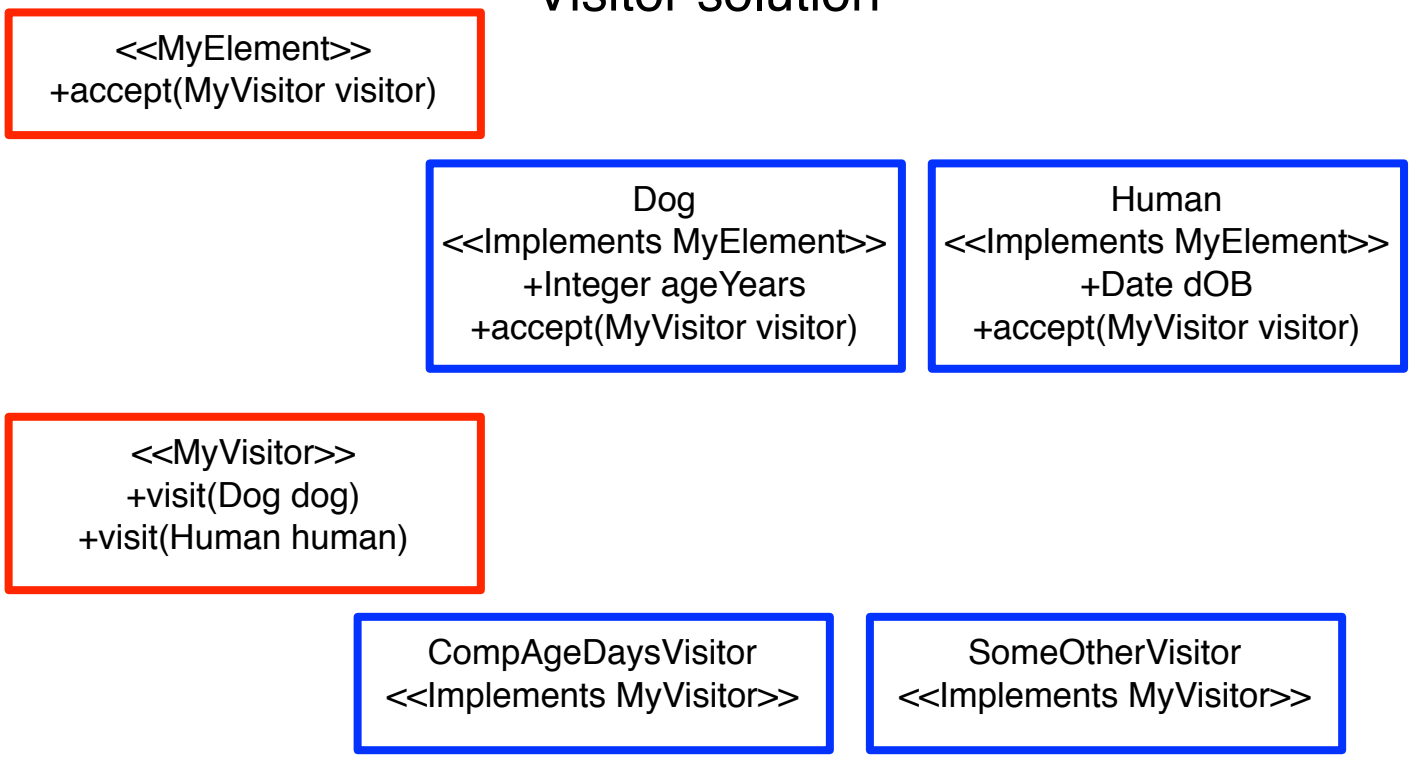
Initial system



Crude solution



Visitor solution