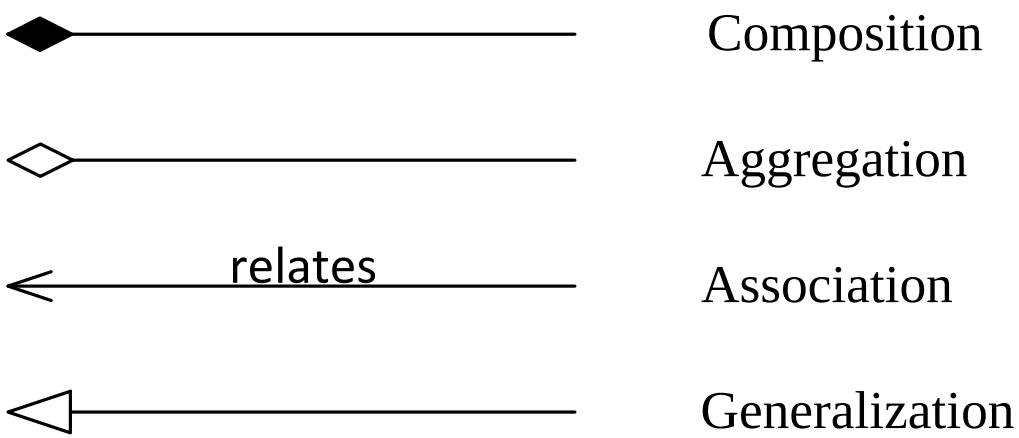
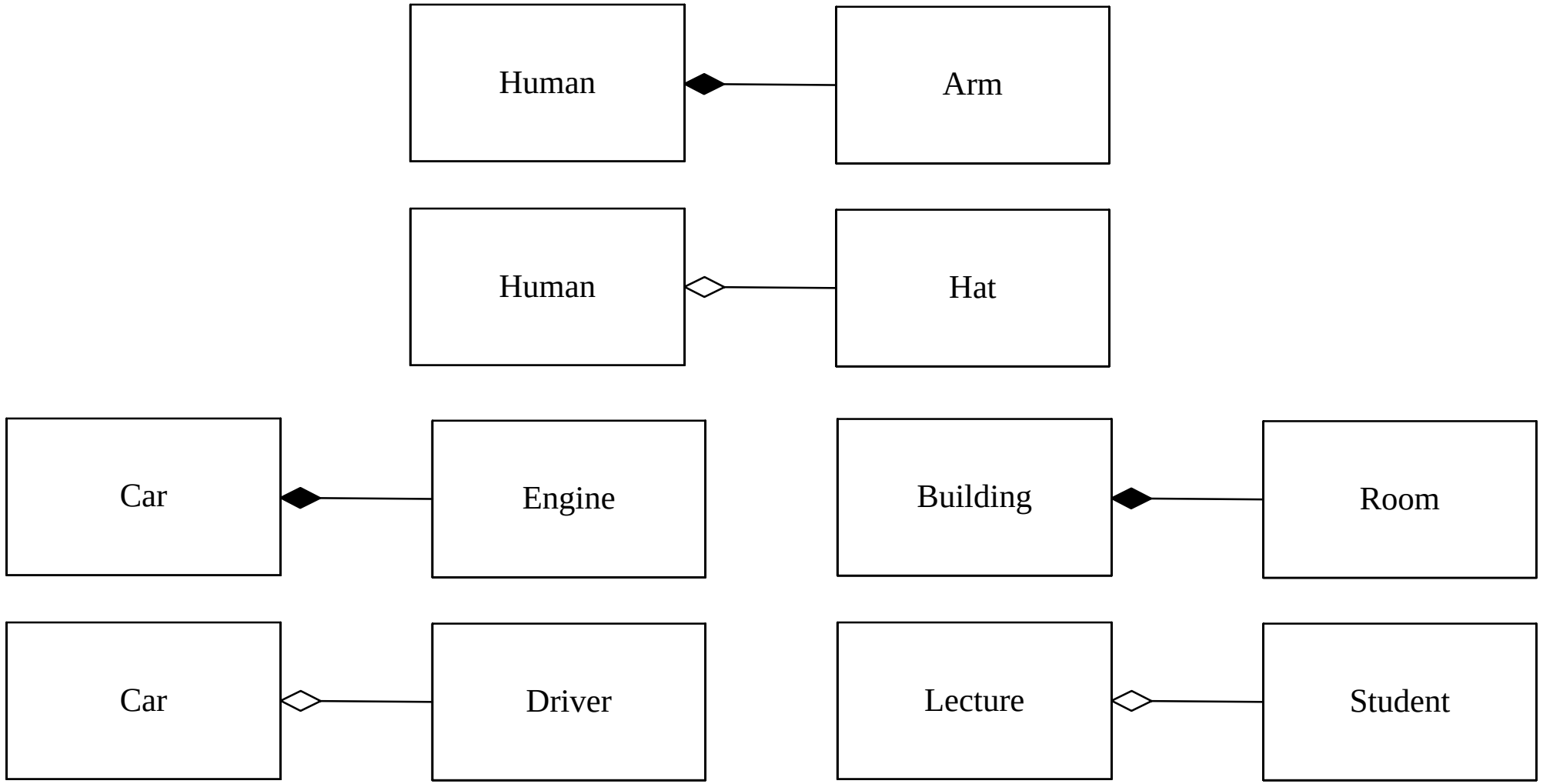
OBLIG I: COMMON MISTAKES

I expect you to know and be able to use the following



SINTEF

Composition versus aggregation

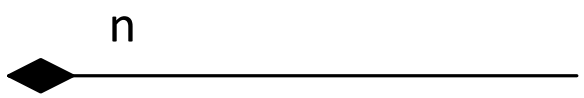


SINTEF

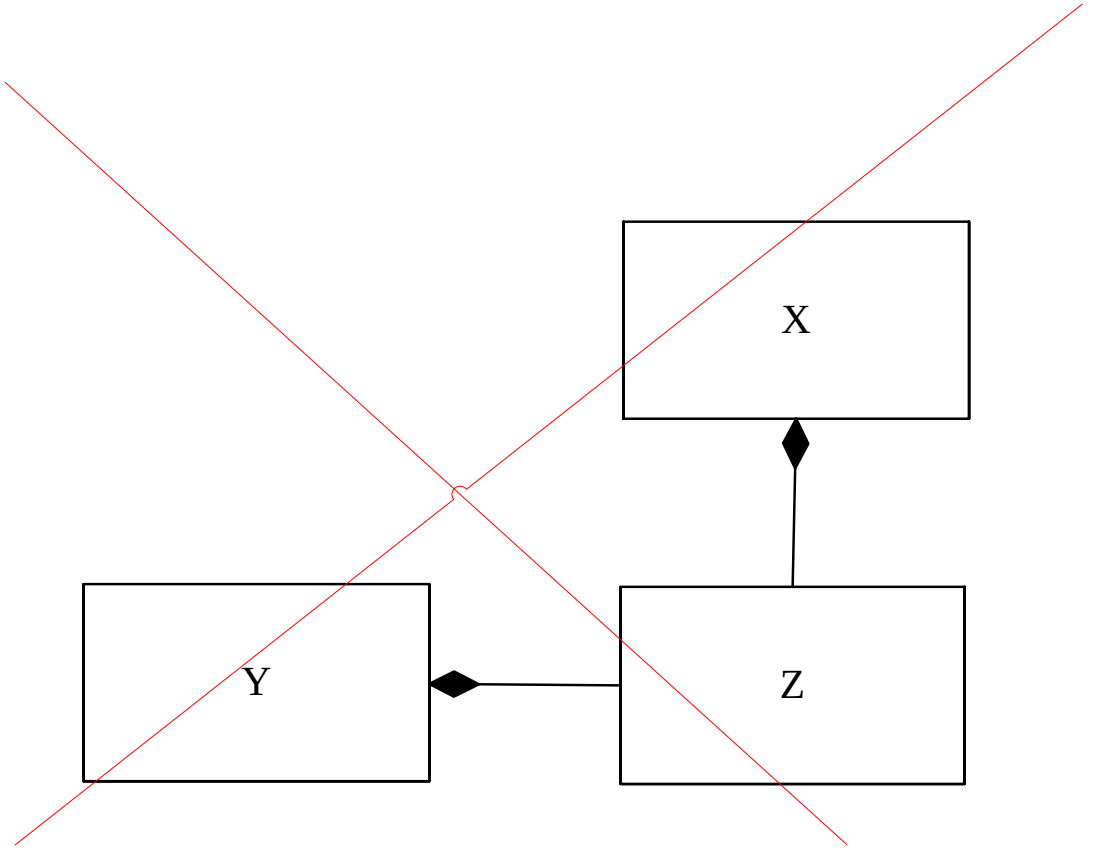
Composition and sharing

Aggregation allows sharing
Composition does not

This means that the multiplicity of n in the composition below should be maximum 1



n=1 or 0..1



SINTEF

Negative versus positive behavior

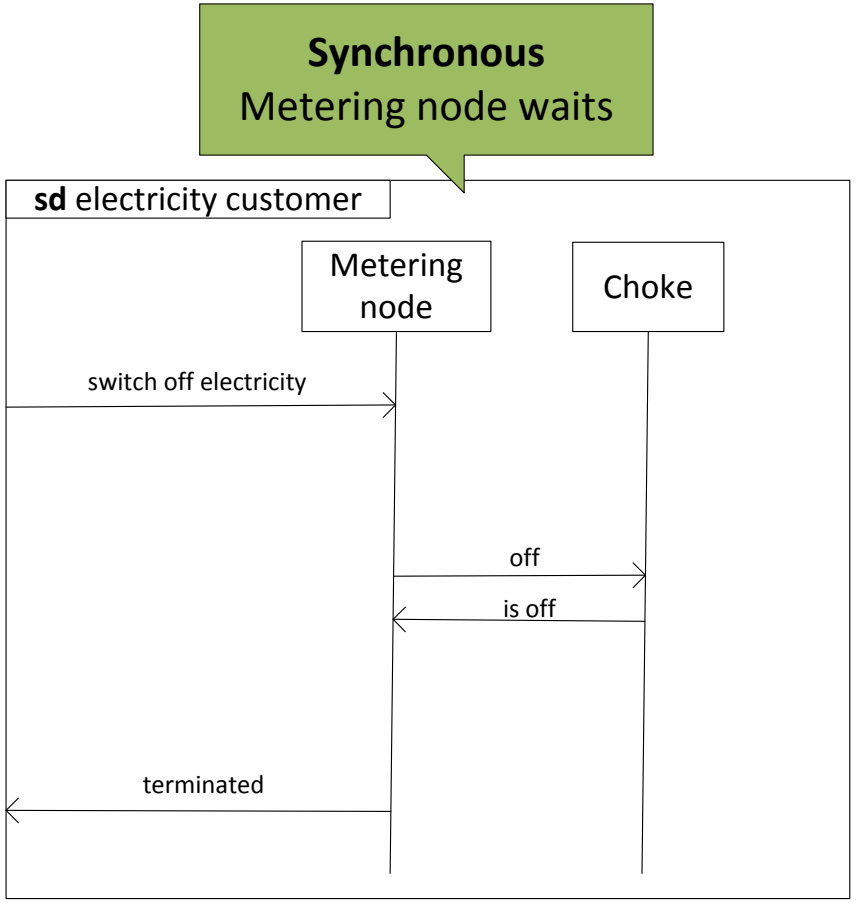
In sequence diagrams negative behavior must be specified explicitely

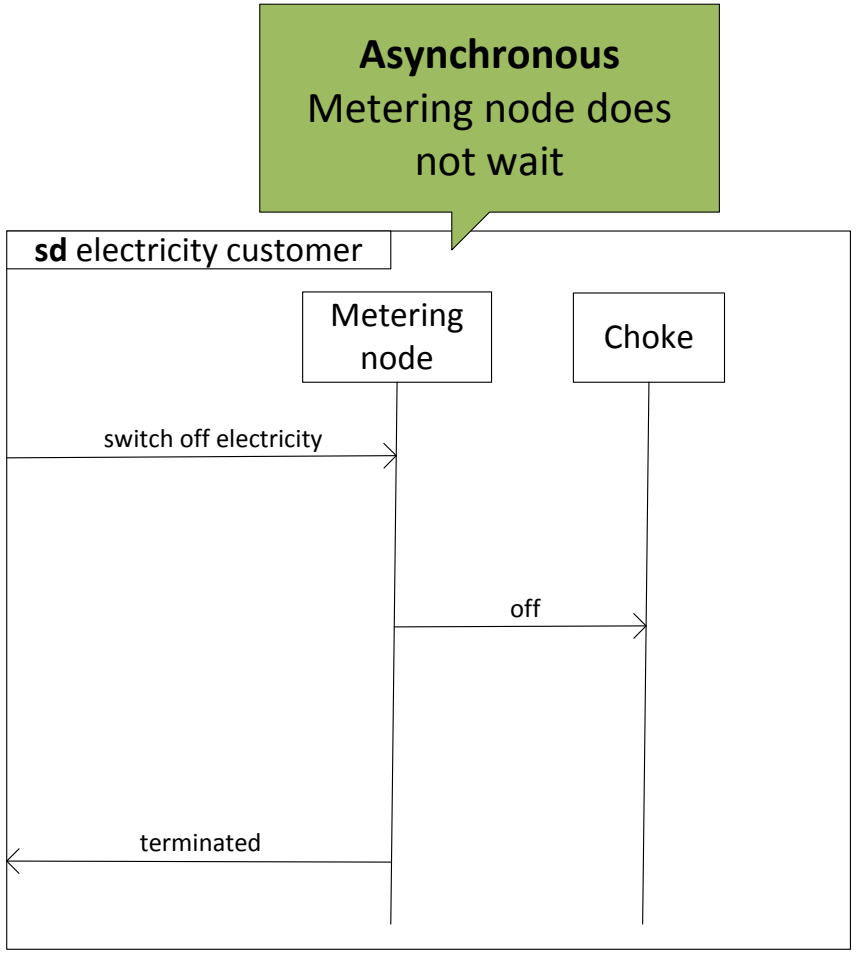
- Negative behavior is expressed unsing veto, refuse, assert, guards

Negative behavior is behavior that is not allowed

- That the recruitement tool may be used to reject applicants that are not found suited is positive behaviour

Synchronous communication





We may always use asynchronous communication to model synchronous communication

SINTEF

Consistency

- A UML statemachine is reactive
  - after initialization any transition requires an input signal
- A UML statemachine employs "/" to distinguish input signals from output signals
- A UML statemachine is consistent with a lifeline in a sequence diagram if any trace of the lifeline can be produced by the statemachine given that
  - input messages represent input signals
  - output messages represent output signals