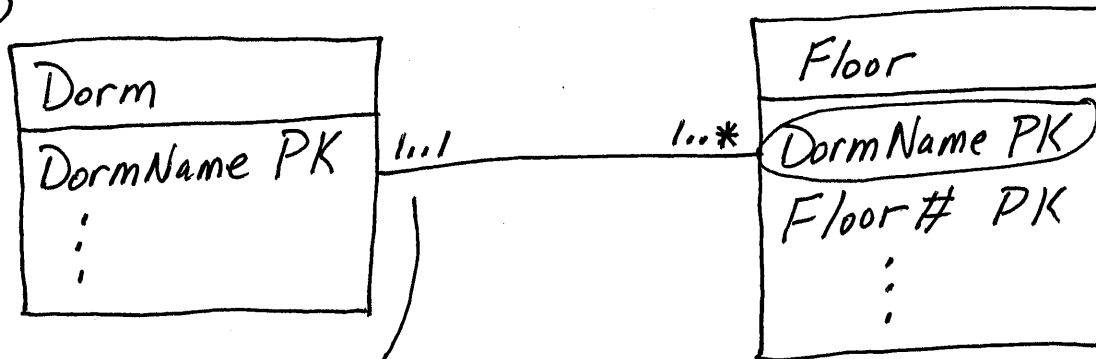


Common UML errors

implicit association

e.g.,

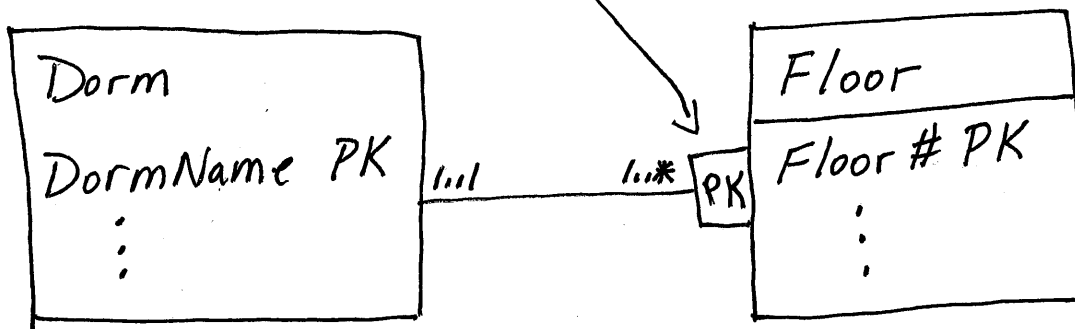


we are supposed to know that shared name means same attribute?
No!

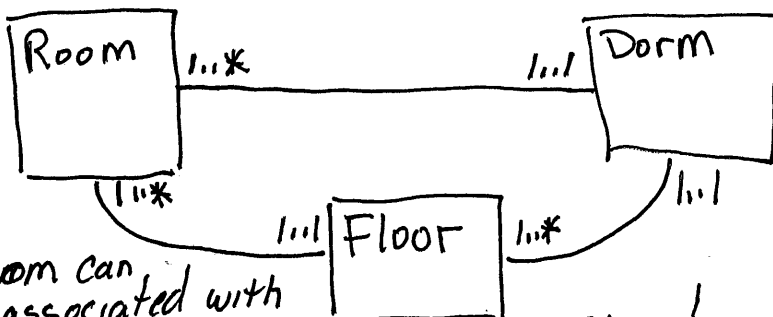
This tells us that exactly one dorm per attribute

use this instead

and this notation ... additionally tells us that part of Key for Floor should be Key of Dorm



circularity multiple paths lead to redundancy & invite inconsistency

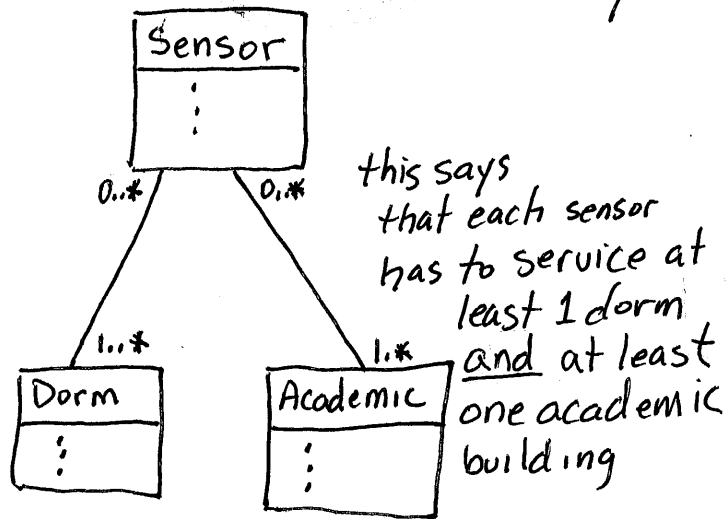


A Room can be associated with Dorm 1 directly & Dorm 2 through Floor!

not UML problem so much as "style" problem

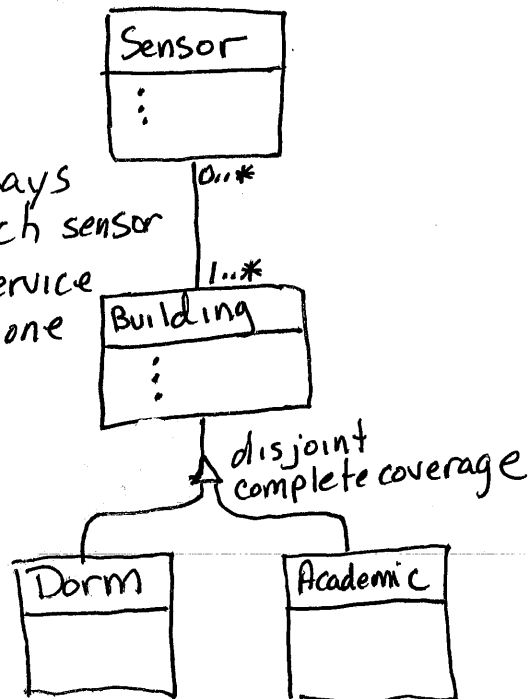
UML "errors" continued

this when you really want this



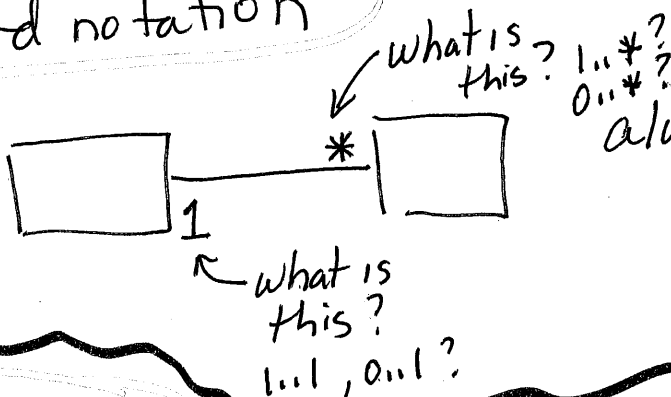
this says that each sensor has to service at least 1 dorm and at least one academic building

this says that each sensor has to service at least one building



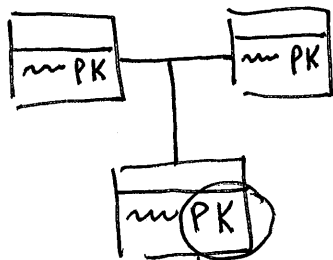
disjoint complete coverage

weird notation



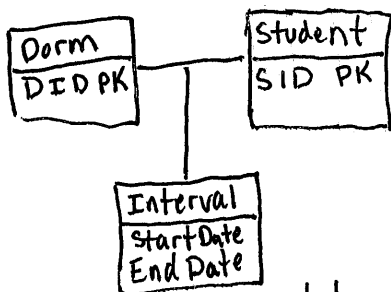
always give an upper & lower "bound" (symbol)

odd ternary constructs

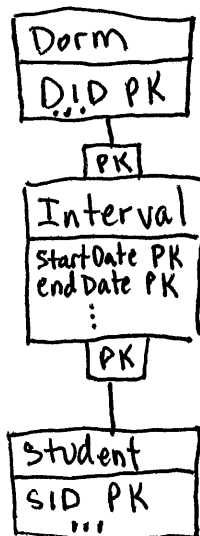


association classes don't have primary keys

Consider

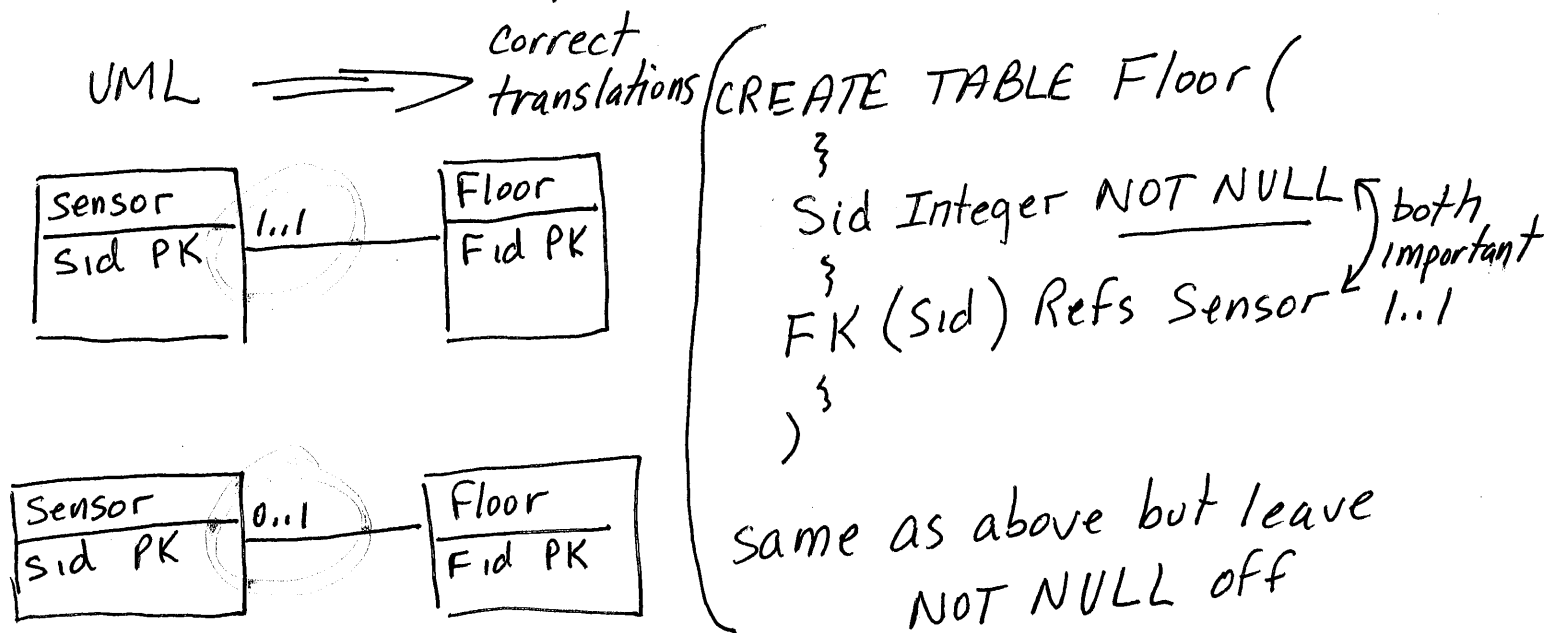


This won't translate to tables such that the DB can store that Doug lived in McGill during 3/5/08-9/2/09 AND 4/7/06-5/1/07



nice!
How will this translate?

Common UML & Table/assertion inconsistencies



1..* one or more require (typically) a (participation) constraint
