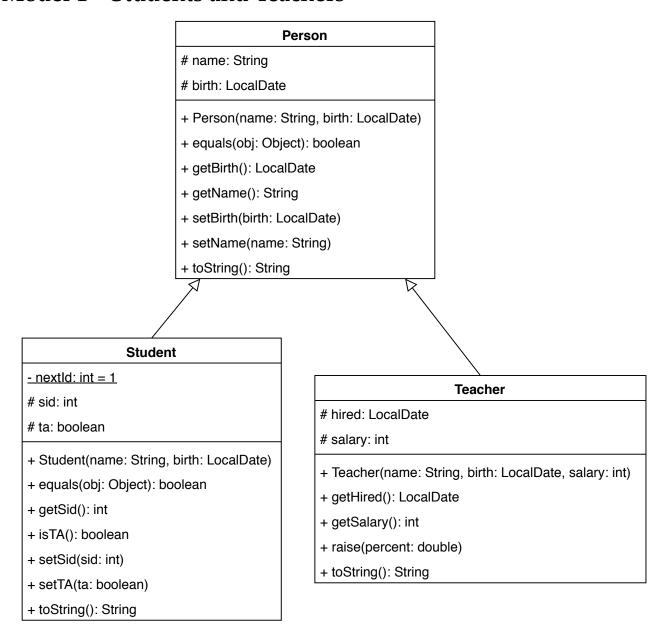
## Model 1 Students and Teachers



## Questions (15 min)

## Start time:

- **1**. Based on the UML diagram:
  - a) What attributes does a Student object have?
  - b) What attributes does a Teacher object have?
  - c) Which methods does Student override?
  - d) Which methods does Teacher override?

2. Based on the	e UML diagram:		
a) Which me	ethods does a Student and	a Teacher have in commo	n? (i.e., inherited)
b) Which me	ethods does a Student objection	ct have that a Teacher obj	ect does not have?
c) Which me	ethods does a Teacher object	ct have that a Student obj	ect does not have?
3. Fill in each b	olank with either "is a" or "	has a":	
a) Person	String	d) Student	String
b) Person	LocalDate	e) Teacher	Person
c) Student	Person	f) Teacher	LocalDate
4. Explain the	difference between "is a" a	nd "has a" in the previous	question.
-		-	
5. Why would	it be incorrect to say "Pers	on is a Student"?	
, in the second	•		
6. Which equal	s method (in which class)	will be invoked by the fol	lowing code? Explain your
	d on the applicable "is a" o	_	

LocalDate d = LocalDate.parse("1949-01-17");

System.out.println(t1.equals(t2));

Teacher t1 = new Teacher("Anita Borg", d, 123456);
Teacher t2 = new Teacher("Anita Borg", d, 123456);