

EECS2030 Advanced Object-Oriented Programming
(Fall 2021)

Q&A - Lecture 5b

Thursday, November 11

Announcement

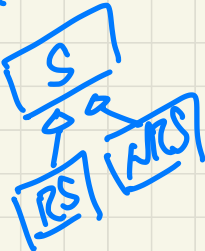
- **Lecture W9** (released: Nov. 8)
- Lab4 released on Nov 8
- Written Test 3 & Programming Test 3

1. polymorphic method parameters
⇒ polymorphic collection (runtime).

2. polymorphic method return types.

type checking rules.

inheritance



obj. equals(obj)

int age;

class Person {

public boolean equals (Person other) {

[]

}

public boolean equals (Object obj) {

[]

}

obj. ?

can only expect what's declared in Object

obj. age X

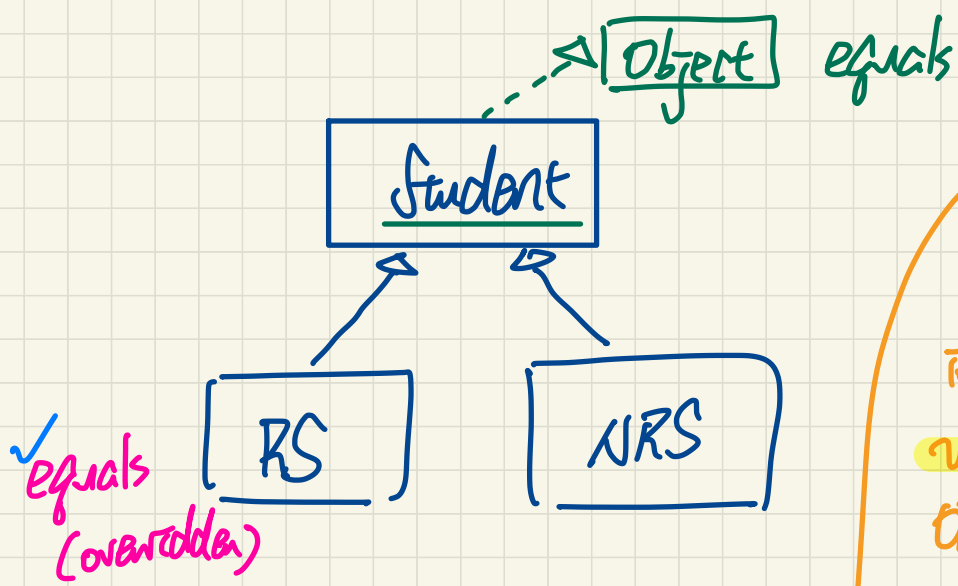
if evaluated to false:

if (this.getClass() !=

obj.getClass()) { return false; }

Person other = (Person) obj; DT. of this

DT of obj



invoke the default
 version of equals in
 Object ∵ none of the
 ancestors of NRS, DT of L.O.

```

Student s1 = new RS(...); overrides s2,
Student s2 = new NRS(...); equals.
∵ L.O. s1 has DT RS.
  
```

- ① s1.equals(s2) ∵ → overridden version in RS
- ② s2.equals(s1) ∵