

EECS3311 Software Design (Fall 2020)

Q&A - Lecture Series W7

Tuesday, November 3

class A

→ I: INTEGER

→ ra: STRING

do

Result := "A.ra"
end
end

smoke(

NC)

5

parent

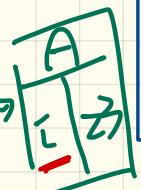
version

obj1, obj2 : A

create f A3 obj1.make(23)

obj1.ra → A.ra

obj



class B

Inherit A redefine

= J: INTEGER

ra: STRING

do

Result := Recursor

end

and

rc

ra

end

make(15)

do

Precursor(E)

5

bad

j:=15

bad

Inherited from A.

create f B3 obj2.make(23)

obj2.ra

↓

"A.ra" + "5" + "23"

↓
final precursor

A.ra 523

class A

ra (i: INT)

End

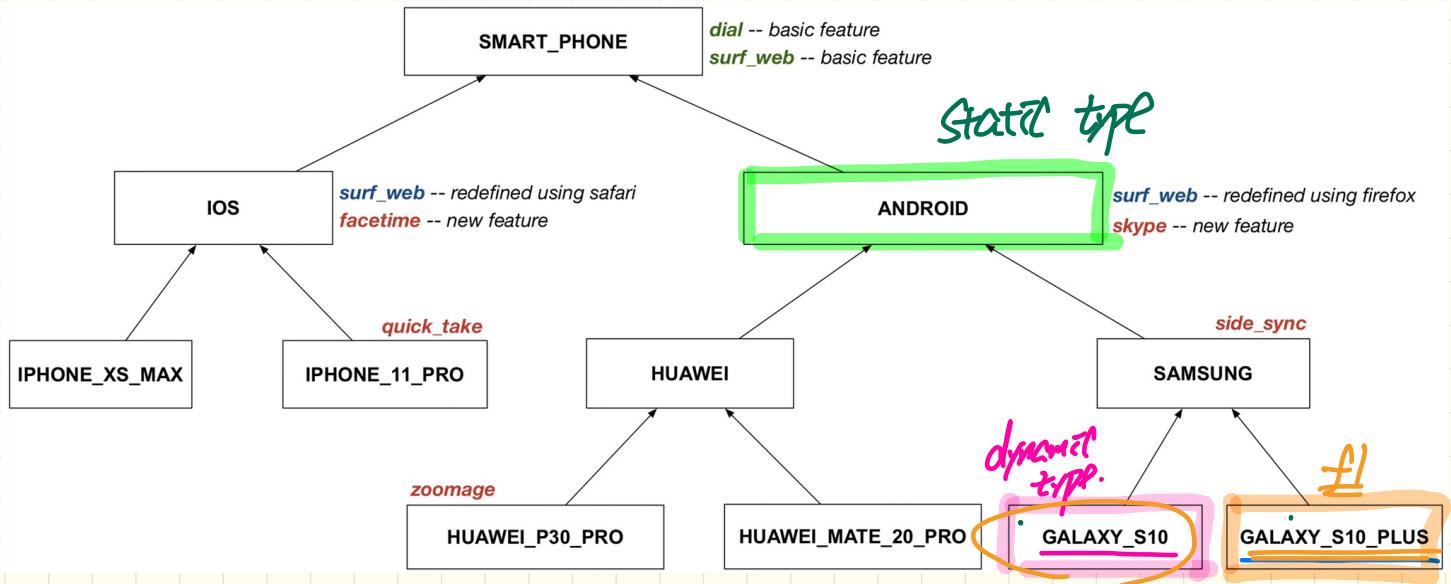


class B

inherit A redefine ra end

ra (i: INT) = j: STRING
REAL X

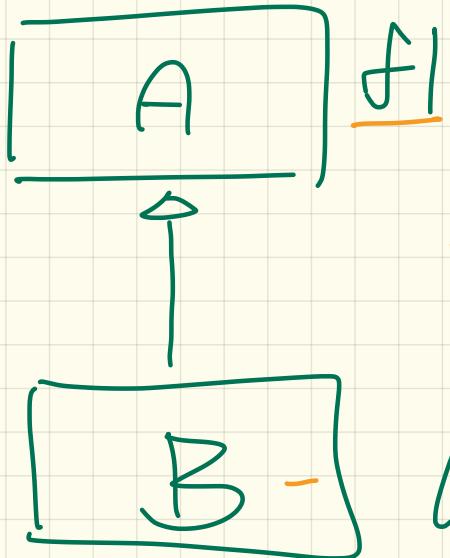
End



mine : ANDROID

Create { G_S10 } mine.make(...) → boolean expression
False ↗
No ↗

Cast : check attached { G_S10_Plus } mine as n_p then have some exper
true `` at the moment G_S10 and G_S10_P ?



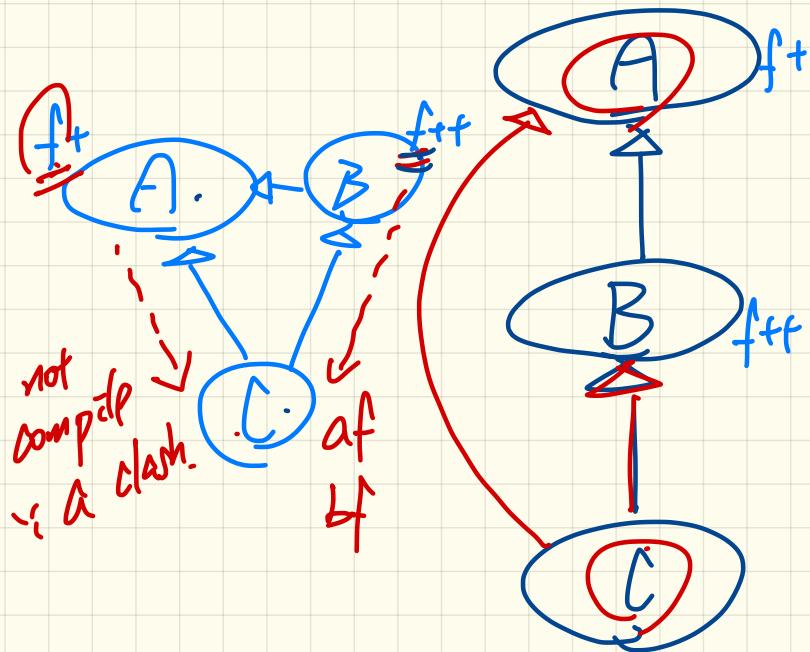
$oa : \underline{A}$
 $ob : \underline{B}$
 $oa := \underline{ob} \quad \checkmark$
 $ob := oa \quad \times$

However, even though
right now both
 A and B can both support
 fl, the compiler does not
 allow A for
 substituting B.

(\because B might be
 extended
 later)

expectation of A?

YES : B is a dependent
 class of A



class C extends B $\rightarrow \times$

class C implements B, A ✓

multiple inheritance
(partially supported
in Java)

class C

inherit A rename f as af end
 B rename f as bf end -