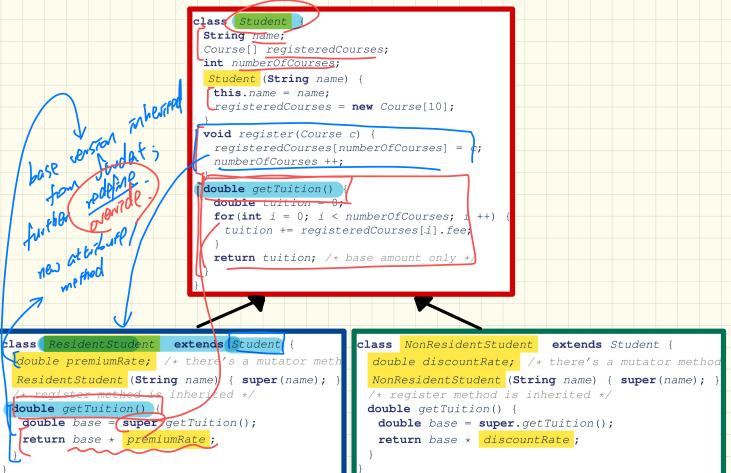
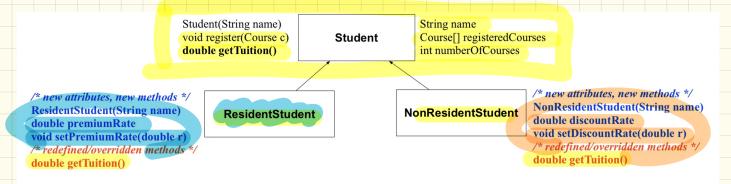
LECTURE 17 WEDNESDAY NOVEMBER 6

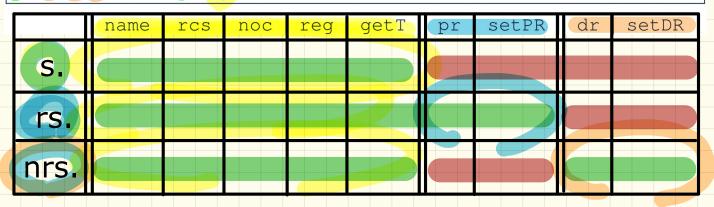
Review: Student Classes (with inheritance)



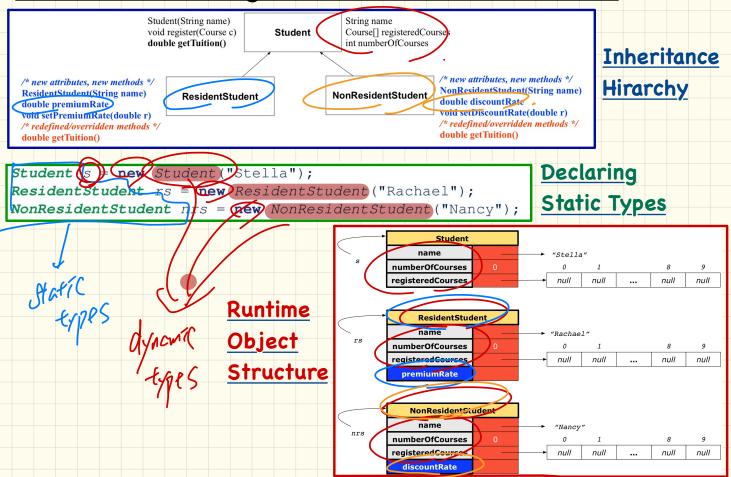
Review: Static Types and Expectations



Student s = new Student("Stella");
ResidentStudent (rs = new ResidentStudent("Rachael");
NonResidentStudent (nrs = new NonResidentStudent("Nancy");

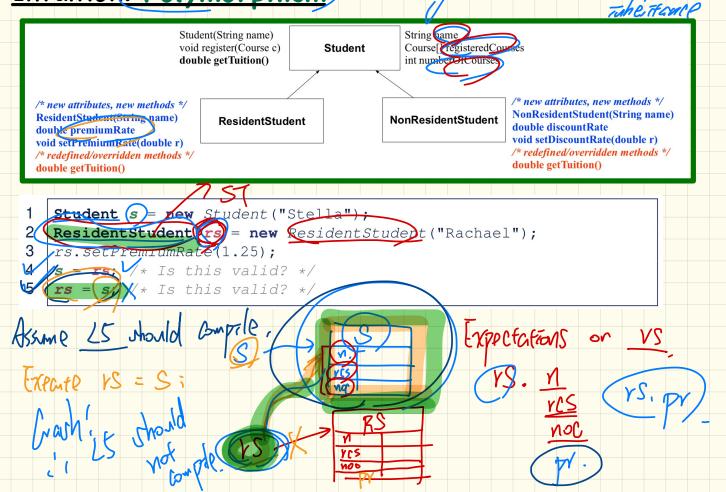


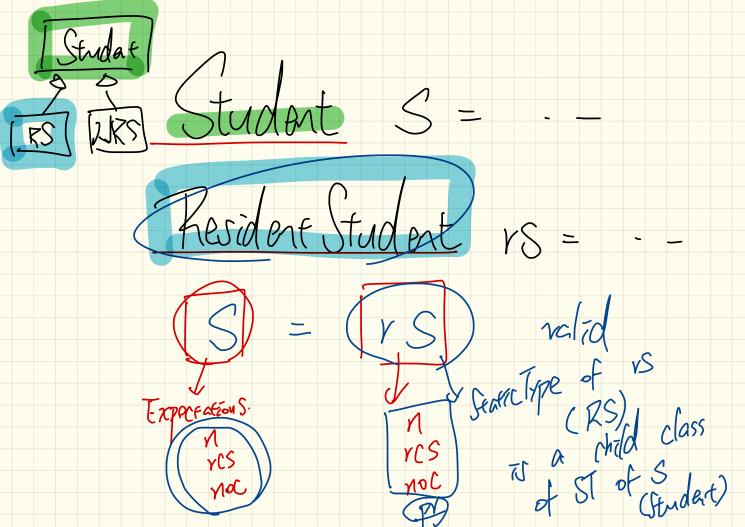
Review: Visualizing Parent and Child Objects



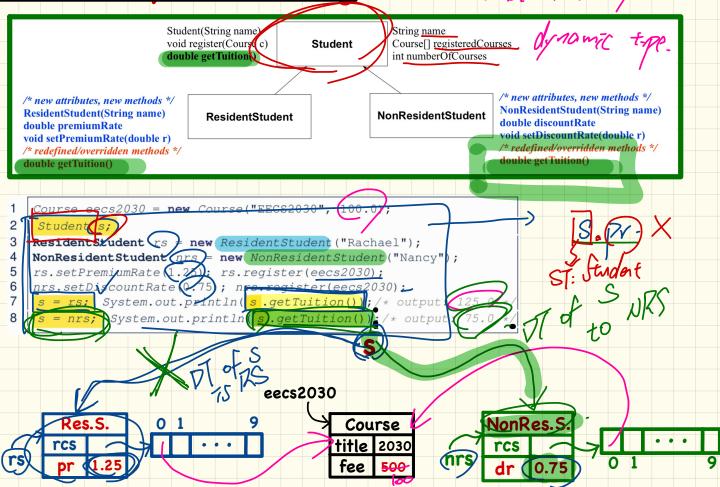
Intuition: Polymorphism

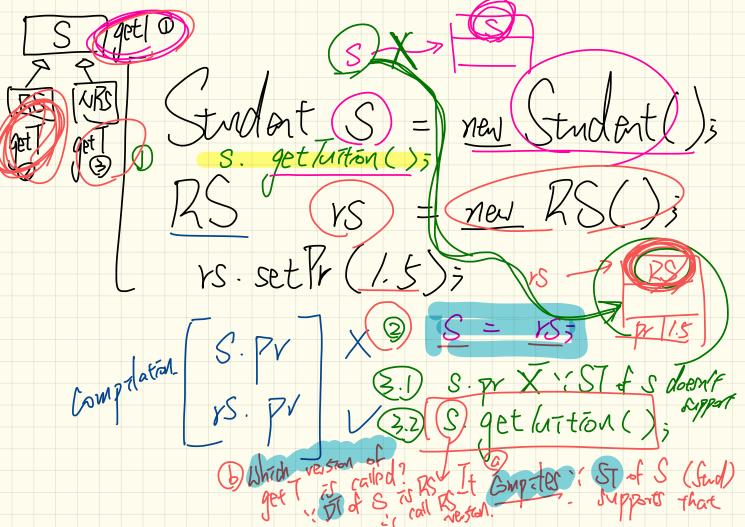


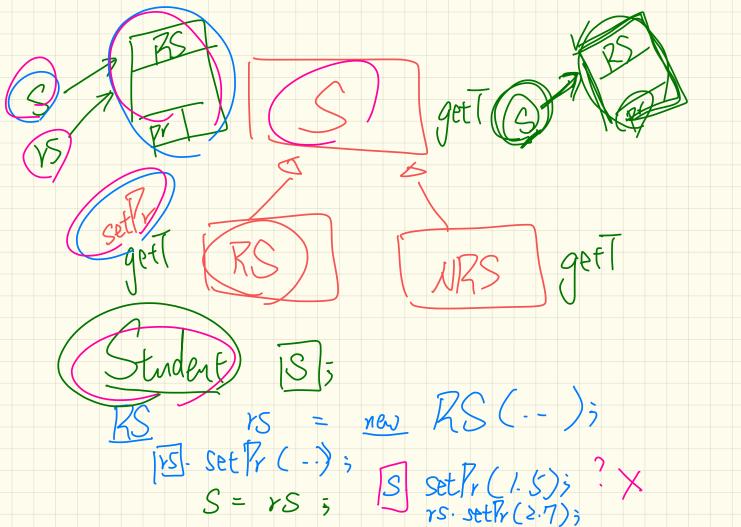




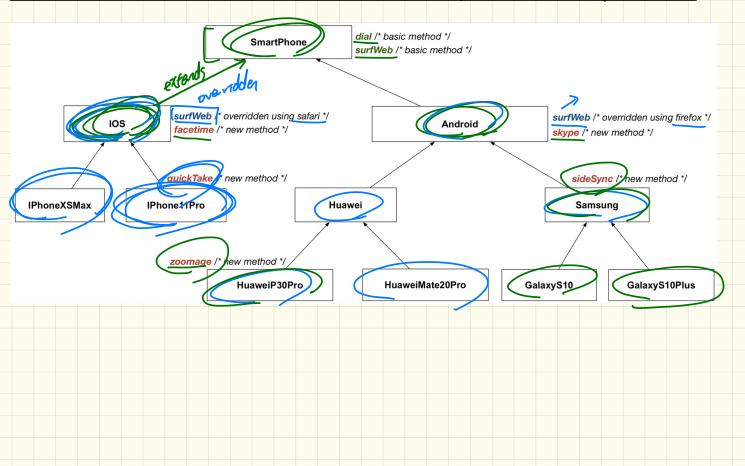
Intuition: Dynamic Binding -> writing behaviour depen

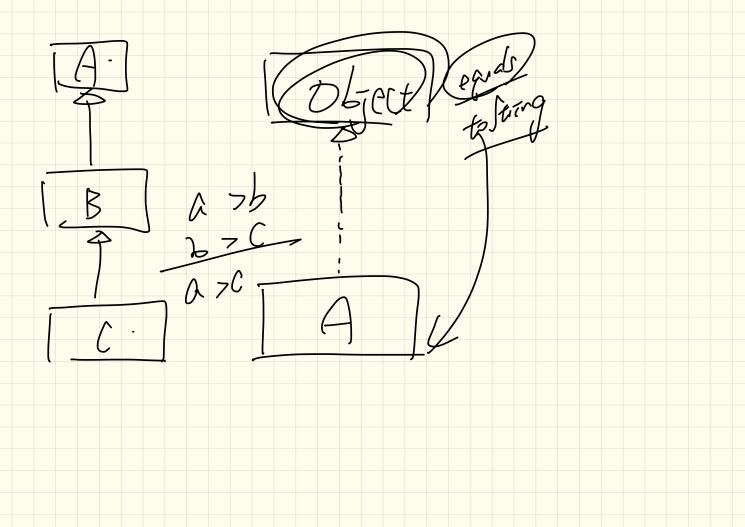


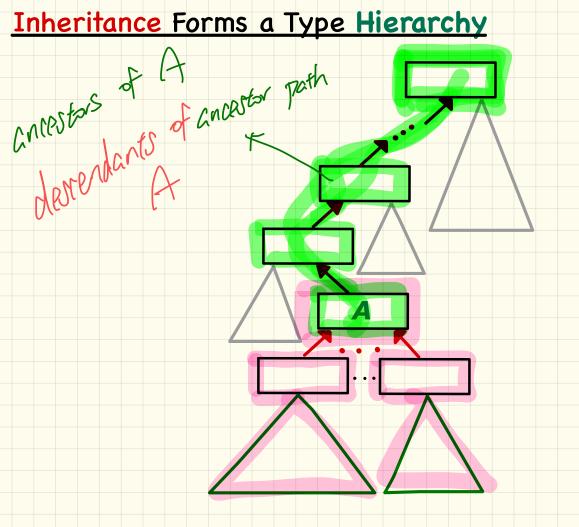


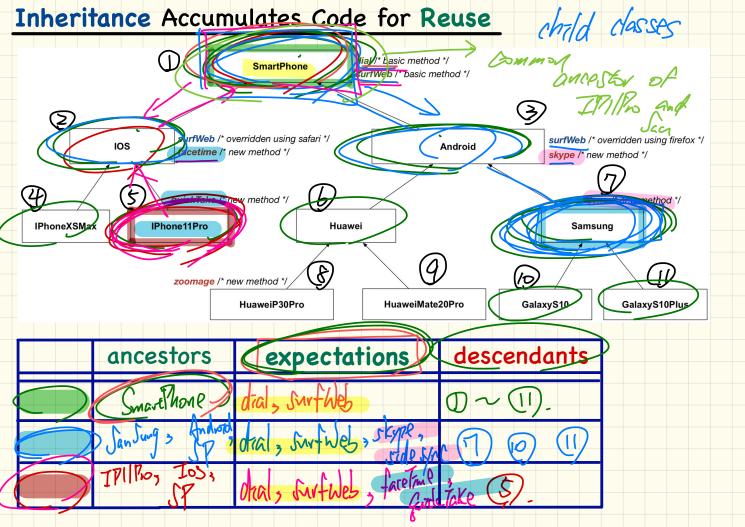


Multi-Level Inheritance Hierarchy of Smartphones

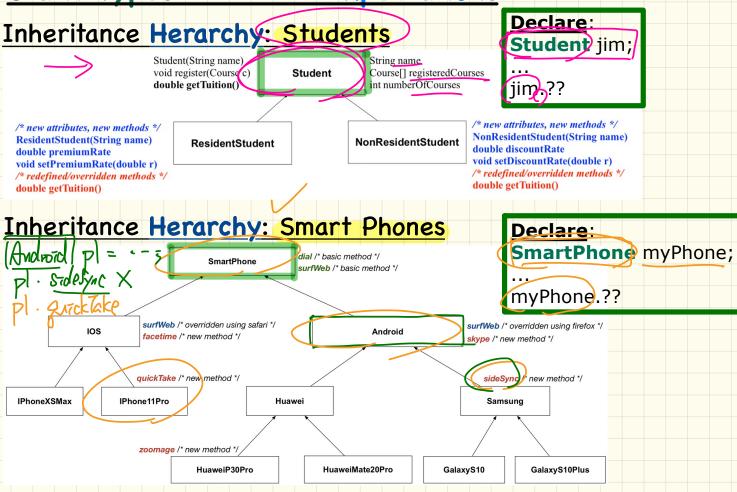


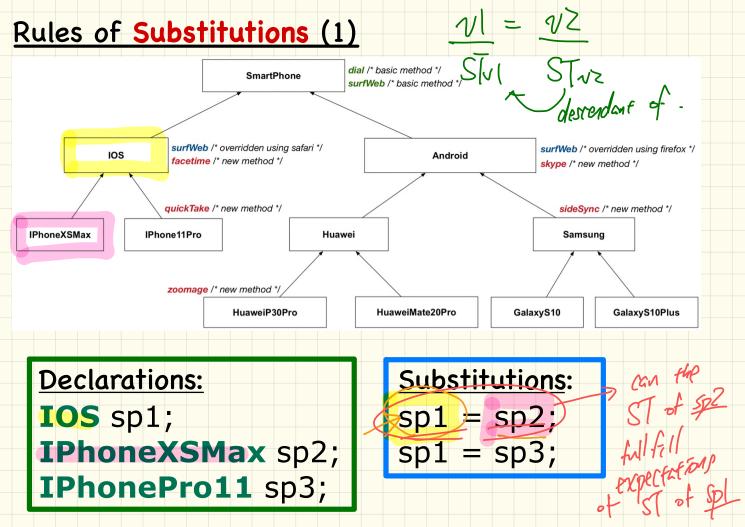




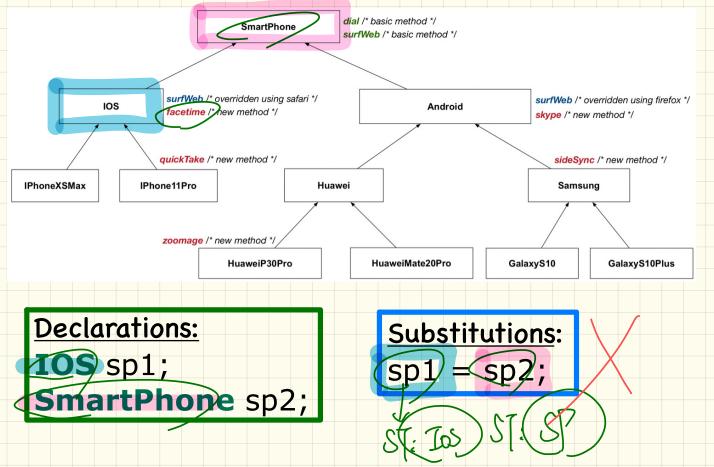


Static Types determine Expectations

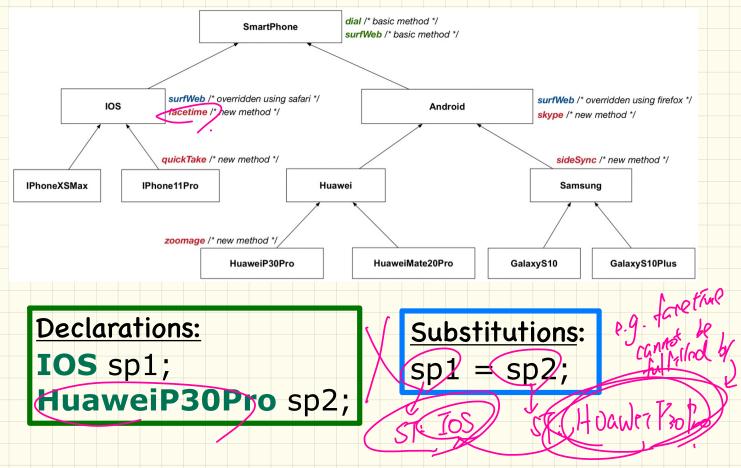




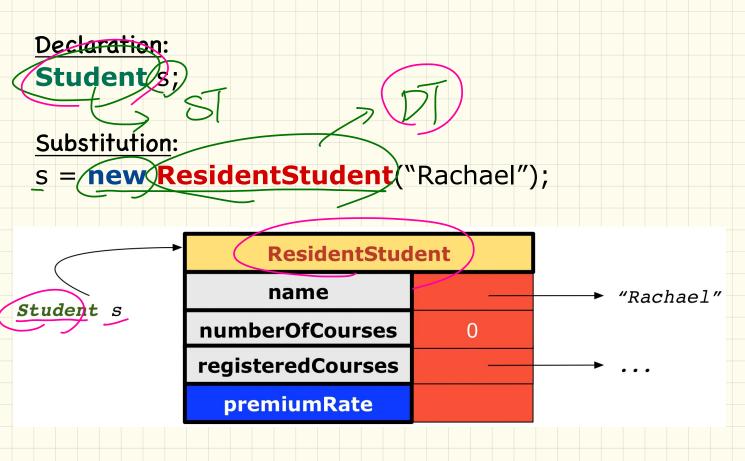
Rules of Substitutions (2)



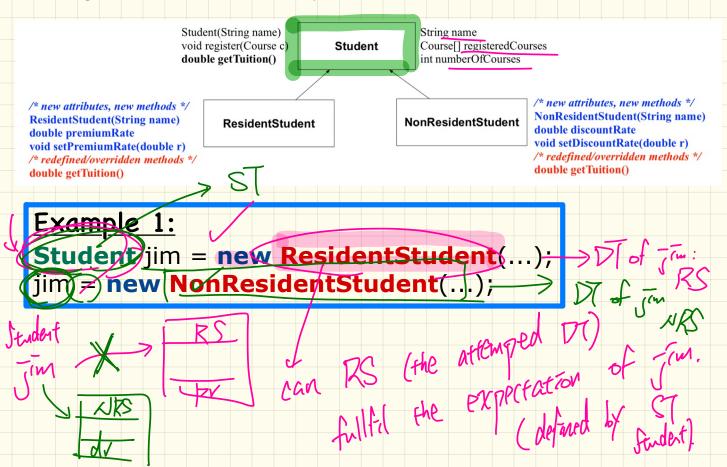
Rules of Substitutions (3)



Visualization: Static Type vs. Dynamic Type



Change of Dynamic Type (1.1)



Change of Dynamic Type (1.2)

