Lecture 18 - Nov. 12

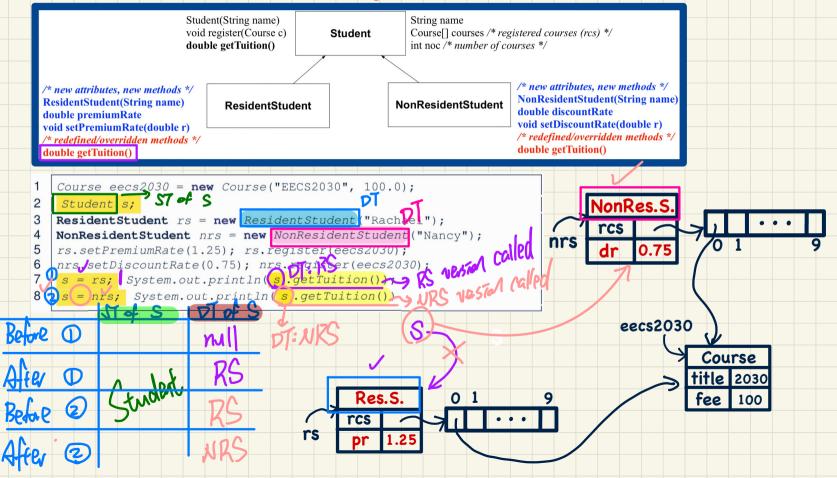
Inheritance

Dynamic Binding: Intuition Ancestors vs Descendants, Expectation Variable Substitutions

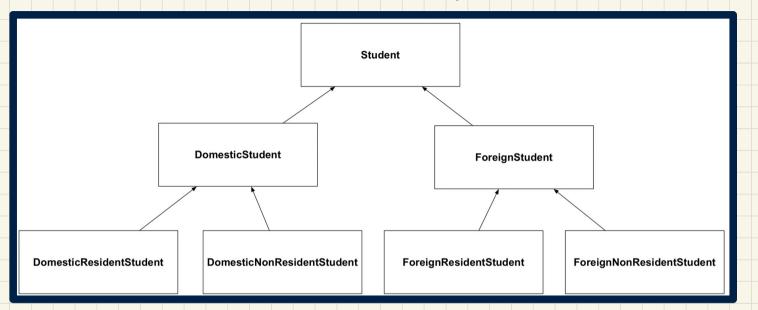
Announcements/Reminders

- WrittenTest2 tomorrow
- Lab4 due this Friday at noon
- ProgTest3 next Wednesday, November 20
- ProgTest2 results & feedback released

Intuition: **Dynamic Binding**



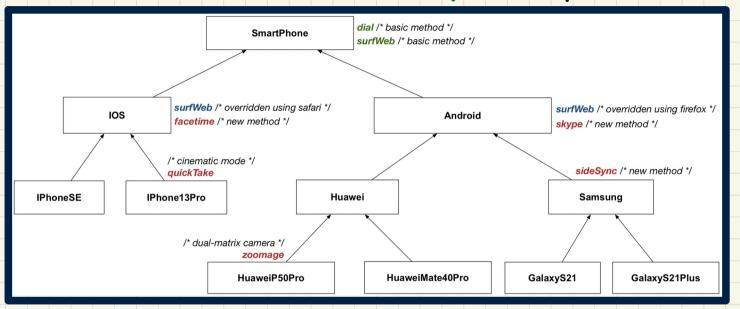
Multi-Level Inheritance Hierarchy: Students



Reflections:

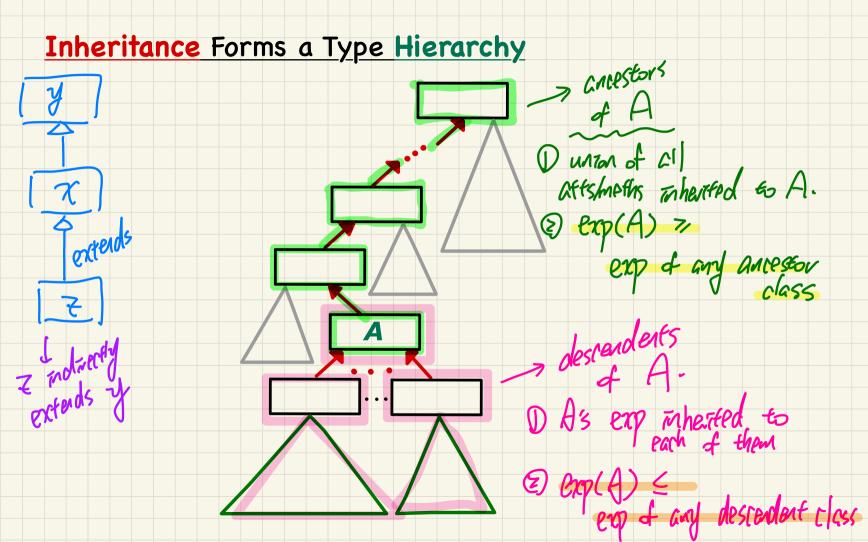
- For <u>Design 1</u>, how many encodings to check for each method?
- For <u>Design 2</u>, how many arrays to store for SMS? ${m ar U}$
- For **Design 3**, where are common attributes/methods stored?

Multi-Level Inheritance Hierarchy: Smartphones

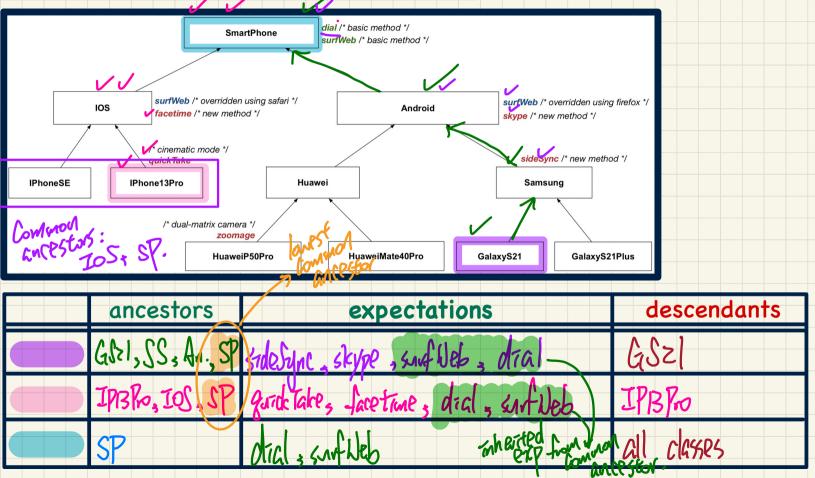


Reflections:

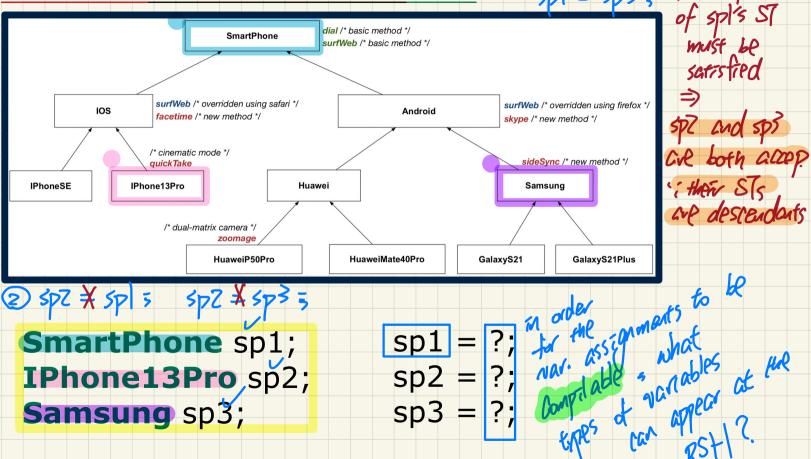
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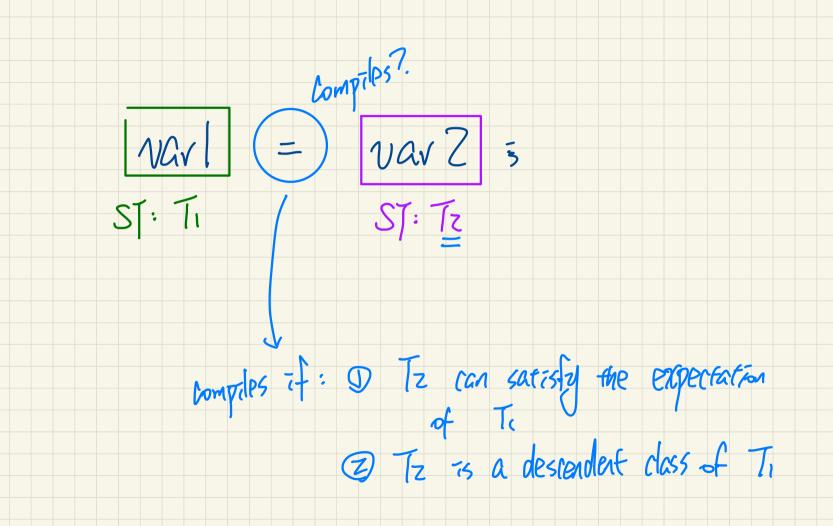
Inheritance Accumulates Code for Reuse



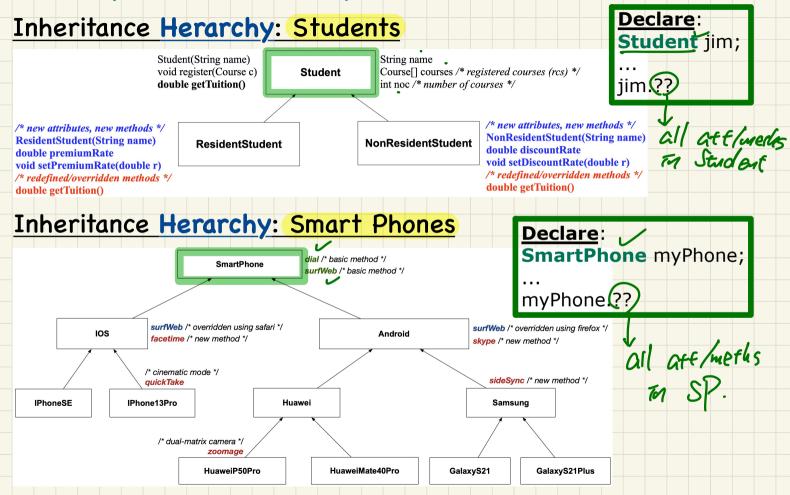
Inheritance Accumulates Code for Reuse



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Static Types determine Expectations



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