

EECS3311 Fall 2020 Questions for Lectures: Week 3

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[3a - Writing & Using a Generic Class \(Slides 2 to 8\)](#)

[3b Part 1 - Stack, Design Principles \(IH, SCP\) \(Slides 3 to 9\)](#)

[3b Part 2, 3 - Abstraction Function \(Slides 10 to 18\)](#)

3a - Writing & Using a Generic Class (Slides 2 to 8)

Questions here (with timestamp from video, or screenshot from video/iPad notes/slides)

1. This is Question 1

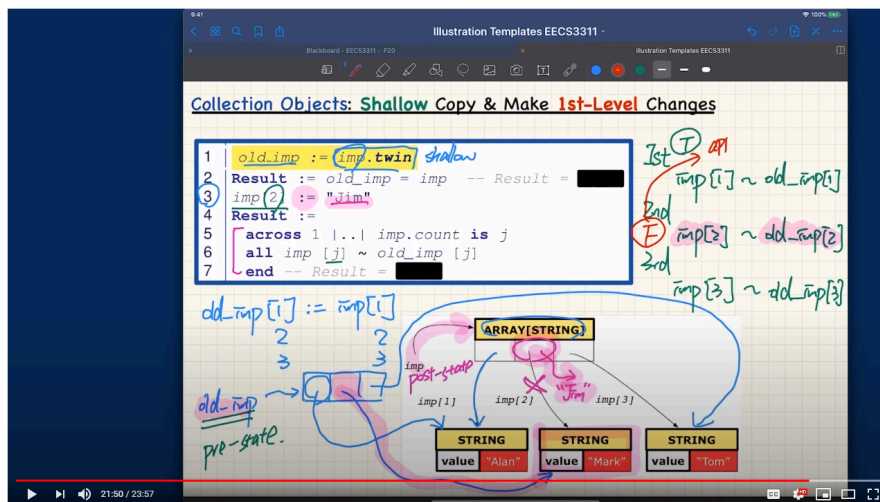
The question is actually from last week(W2)

Roadmap of Illustrations			
We examine 5 different versions of a command			
$deposit_on(n : STRING; a : INTEGER)$			
VERSION	IMPLEMENTATION	CONTRACTS	SATISFACTORY?
1	Correct	Incomplete	No
2	Wrong	Incomplete	No
3	Wrong	Complete (reference copy)	No
4	Wrong	Complete (shallow copy)	No
5	Wrong	Complete (deep copy):	Yes

Why is the shallow copy not enough to be satisfactory?

I understand for the shallow copy, the context still refer to the same address.

But in the previous lectures,



you change the object to "Jim" , but the context of shallow copy remains the same,so when it comes to comparison, the result will be false and the client might know it is a bad implementation. isn't it satisfactory?

2. At 18:50 in Lecture 3a, you explain the idea of clashing with existing classes, I did not understand what you meant by this could you please explain it again?

3b Part 1 - Stack, Design Principles (IH, SCP) (Slides 3 to 9)

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3b Part 2, 3 - Abstraction Function (Slides 10 to 18)

Questions here (with timestamp from video, or screenshot from video/iPad notes/slides)

1. This is Question 1

Could you please explain what this syntax means [G -> attached ANY]?

2. Shouldn't the model feature be marked as {NONE} because the client shouldn't see how it is implemented ? It appears the client should never have to directly call model and it is used in postconditions.