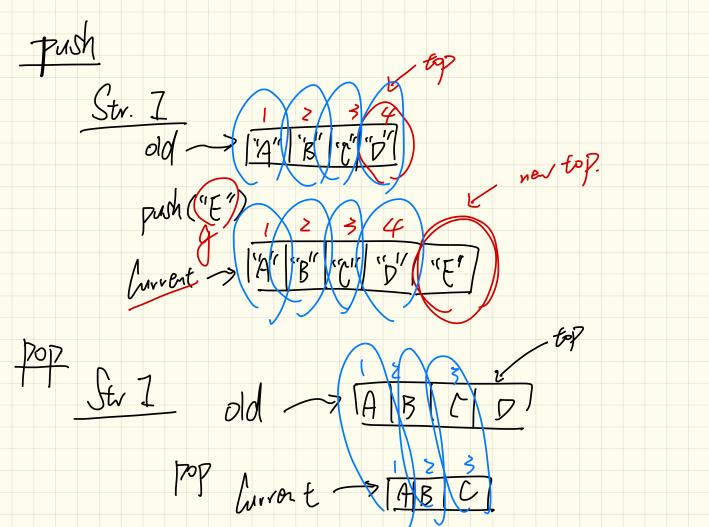
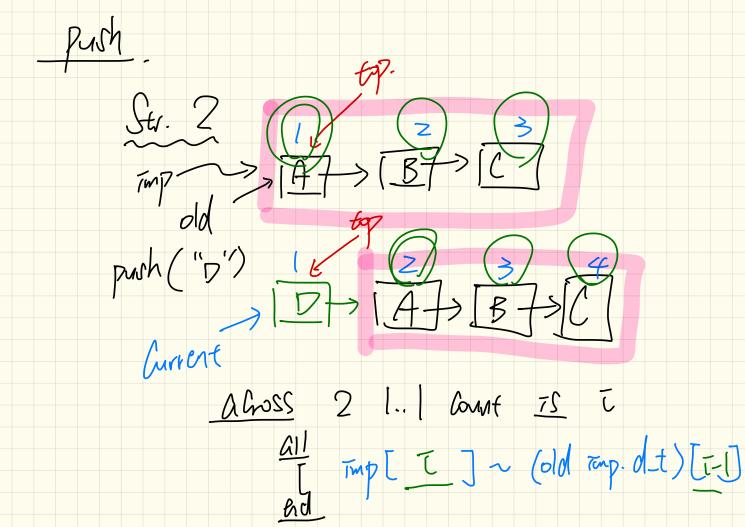
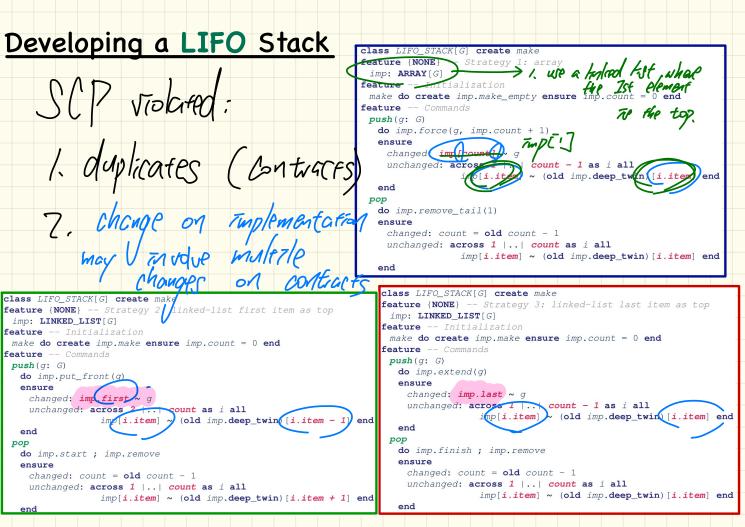
LECTURE 16 TUESDAY NOVEMBER 5

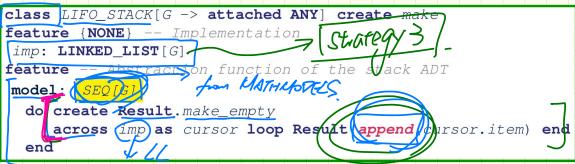




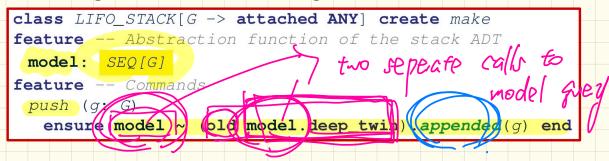


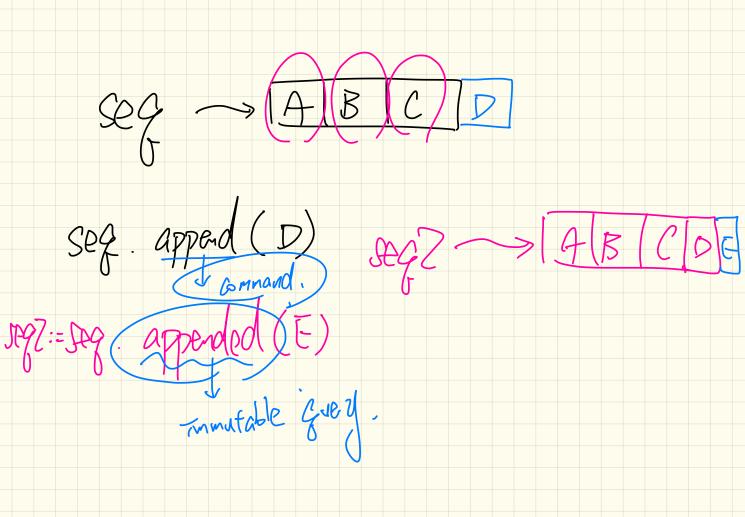
## Using MATHMODELS Library

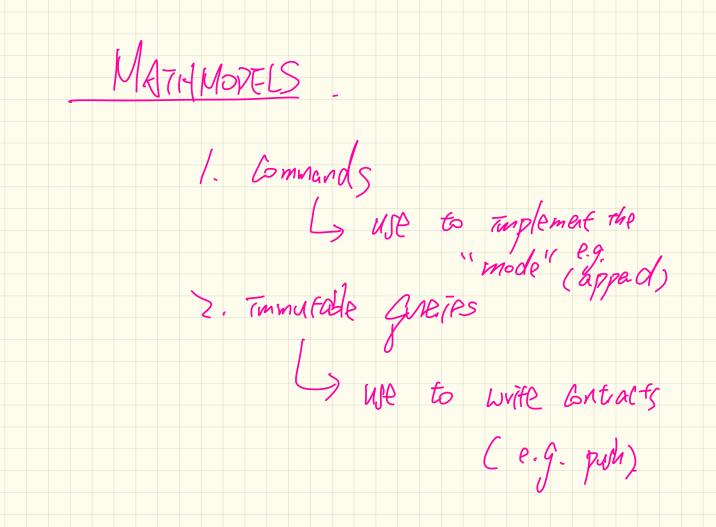
# **Implementing an Abstraction Function**

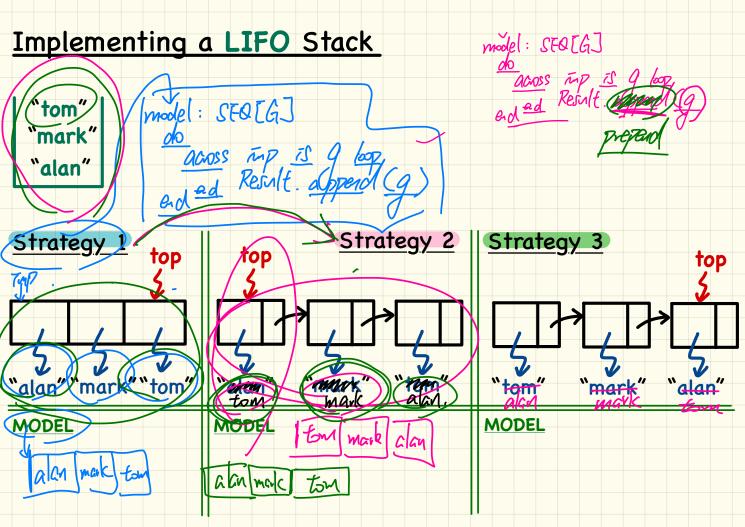


## Writing Contracts using the Abstraction Function



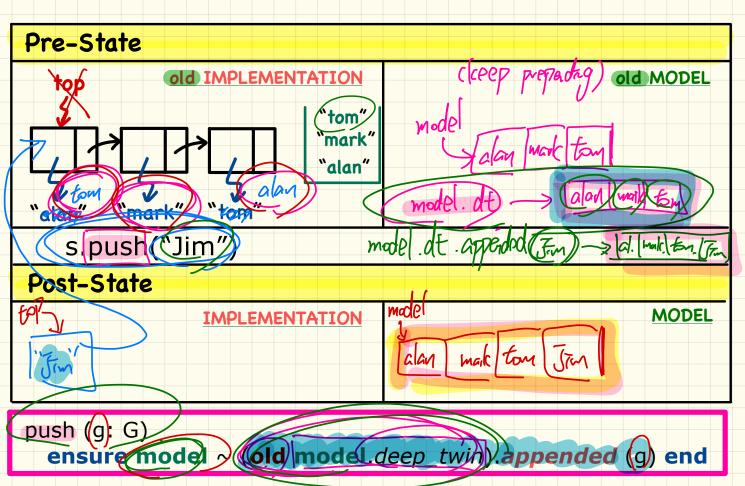






#### Checking MATHMODELS Contracts at Runtime

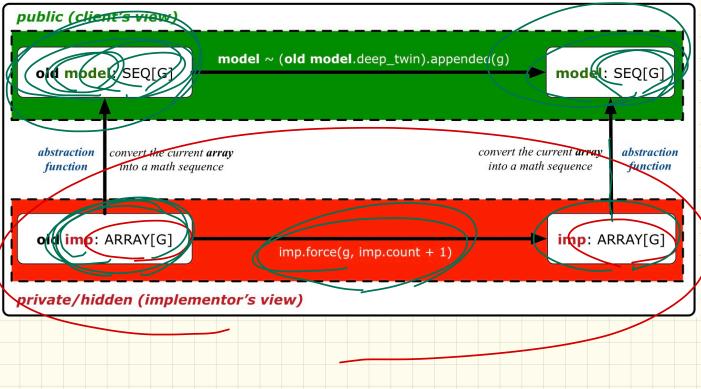
Strategy 2



tom Stack[G] class Gm marc mail Feature FLONTS TIMP: ARRAY[G] alag made feature tom That top public mode keep appealing to the end of Result preparating model s clau do top: G ENSINE Result ~ model. last

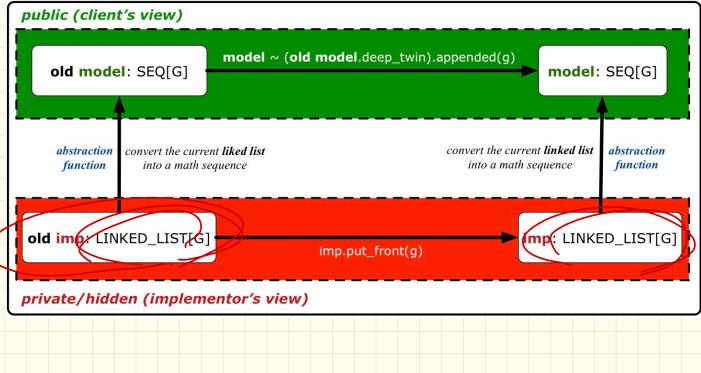
### Strategy 1: Mathematical Abstraction

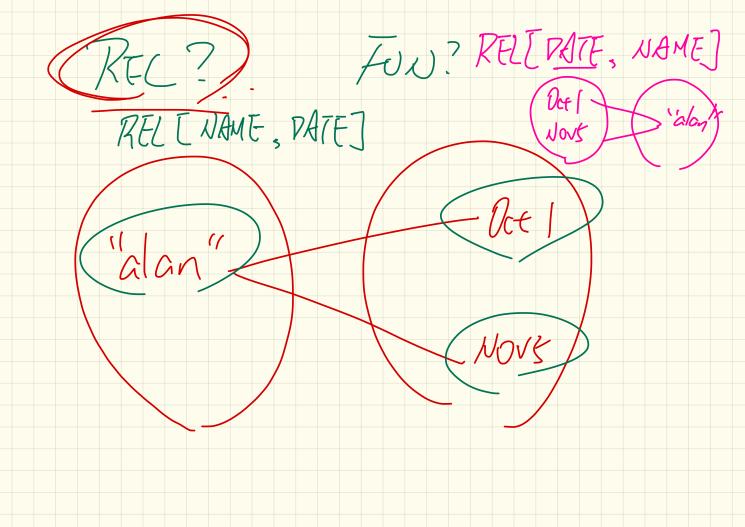
#### 'push(g: G)' feature of LIFO\_STACK ADT



### Strategy 2: Mathematical Abstraction

#### 'push(g: G)' feature of LIFO\_STACK ADT





feature { XDXIE] model: SEQ[G]

feature get\_model : Stath]