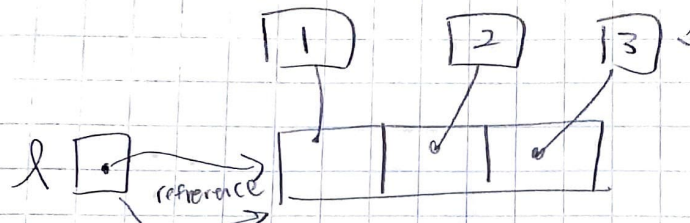


$l = [1, 2, 3]$

*Boxes are memory

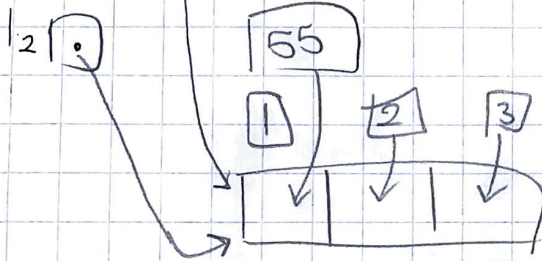


$l_2 = l$ ← copy (copies reference not data)

$l_2[0] = 55$

updating an element in variable

only copying reference so it doesn't take that much time



l will ^{silently} be $[55, 2, 3]$

this is possible b/c it is updating everything that shares that's memory

$l_2 = [7]$



reference

$l_2 =$

this is different from what is above

this one is new pointing to 7 b/c reassigning the variable to a different list
you are ~~updating~~ a variable l

l is still pointing @ $[1, 2, 3]$ or $[5, 2, 3]$