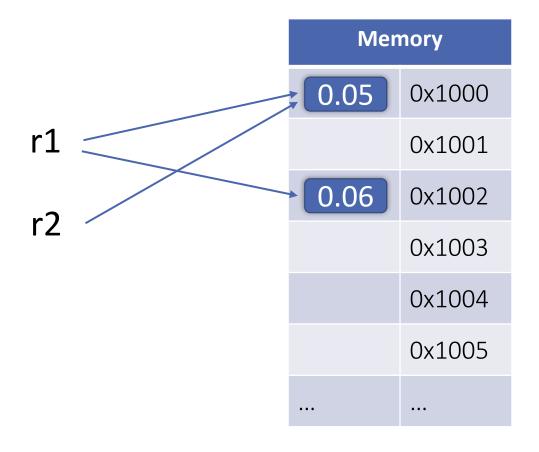
(Im-)Mutability of Integers/Floats



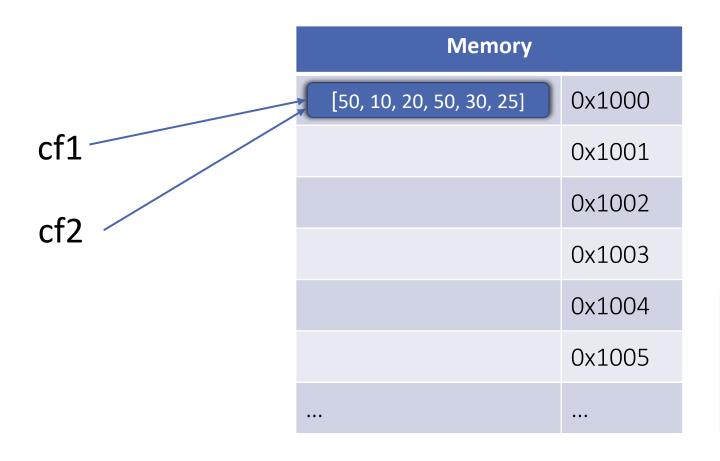
Code: r1 = 0.05

Code: r2 = r1

Code: r1 += 0.01

Integers/Floats are immutable Objects!

Mutability of Lists



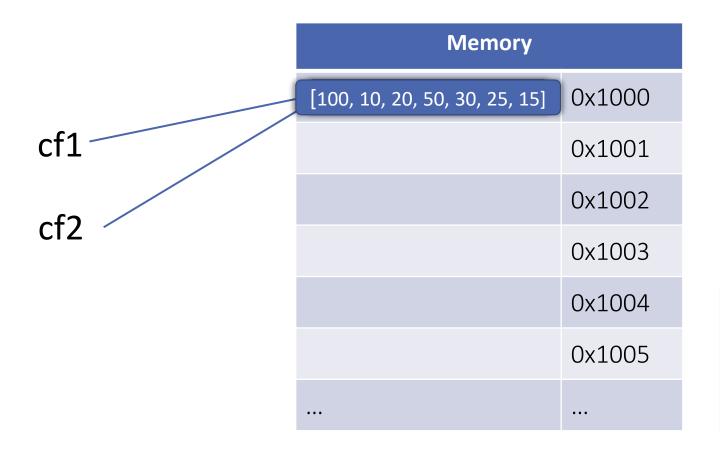
Code: cf1 = [100, 10, 20, 50, 30, 25]

Code: cf2 = cf1

Code: cf1[0] = 50

Lists are mutable Objects!

Changing / Mutating Lists "In Place" vs...



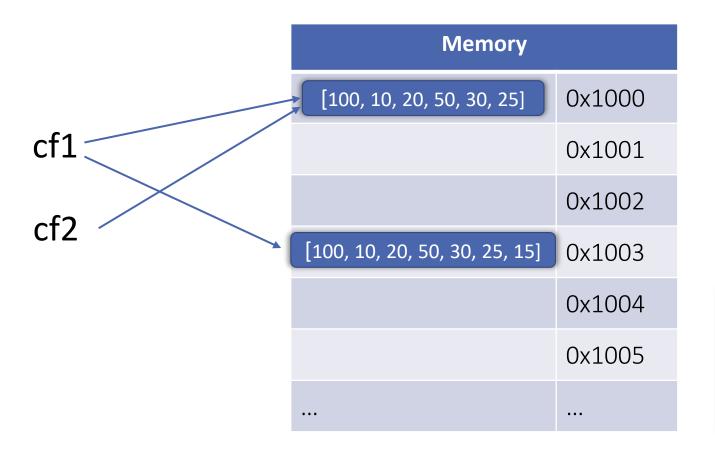
Code: cf1 = [100, 10, 20, 50, 30, 25]

Code: cf2 = cf1

Code: cf1.append(15)

List was modified/changed.

...Variable Re-Assignment



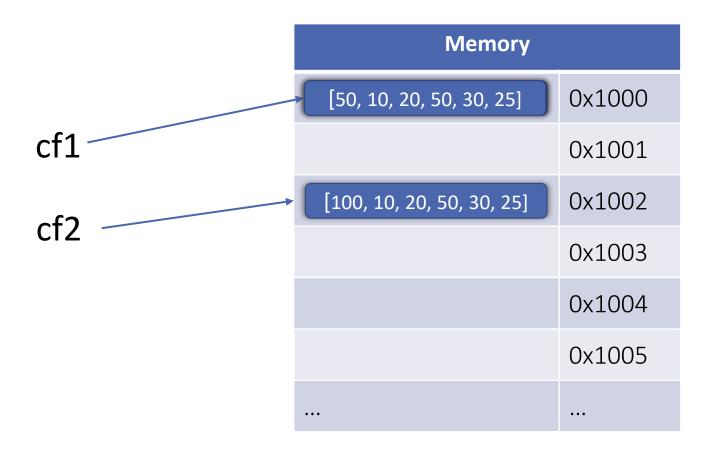
Code: cf1 = [100, 10, 20, 50, 30, 25]

Code: cf2 = cf1

Code: cf1 += [15]

Original List wasn't modified/changed.

Creating Copies (non-advisable Solution)

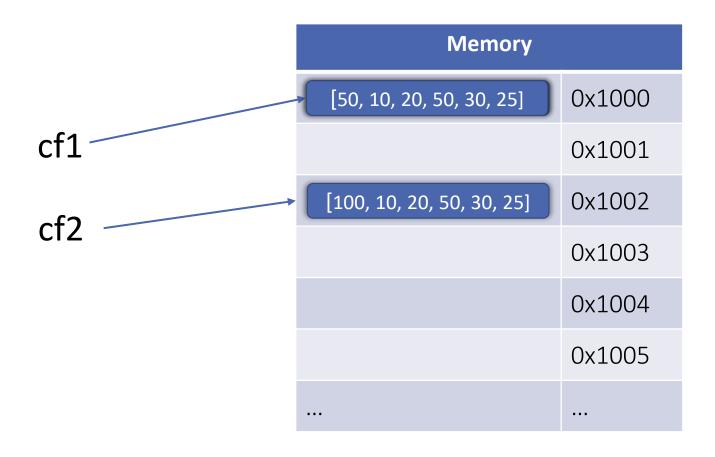


Code: cf1 = [100, 10, 20, 50, 30, 25]

Code: cf2 = [100, 10, 20, 50, 30, 25]

Code: cf1[0] = 50

Creating Copies (non-advisable Solution)

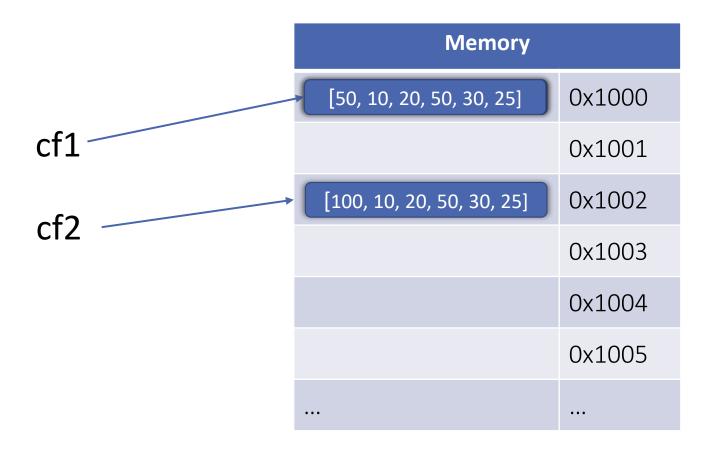


Code: cf1 = [100, 10, 20, 50, 30, 25]

Code: cf2 = cf1[:]

Code: cf1[0] = 50

Creating Copies (advisable Solution)



Code: cf1 = [100, 10, 20, 50, 30, 25]

Code: cf2 = cf1.copy()

Code: cf1[0] = 50