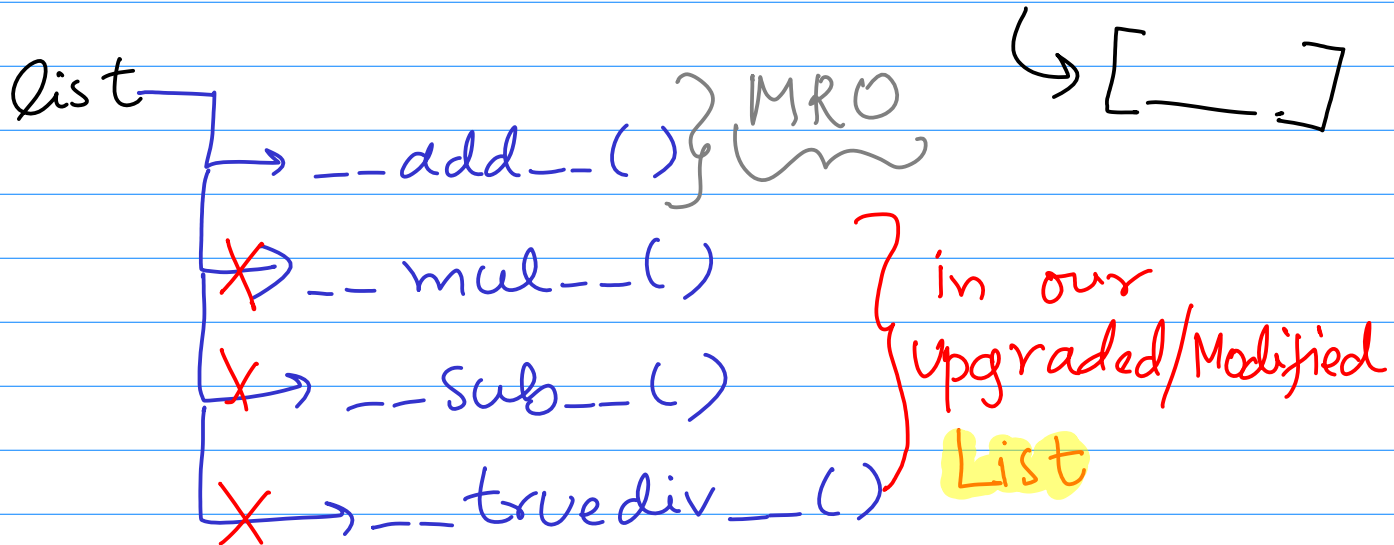


Let's Define a Matrix

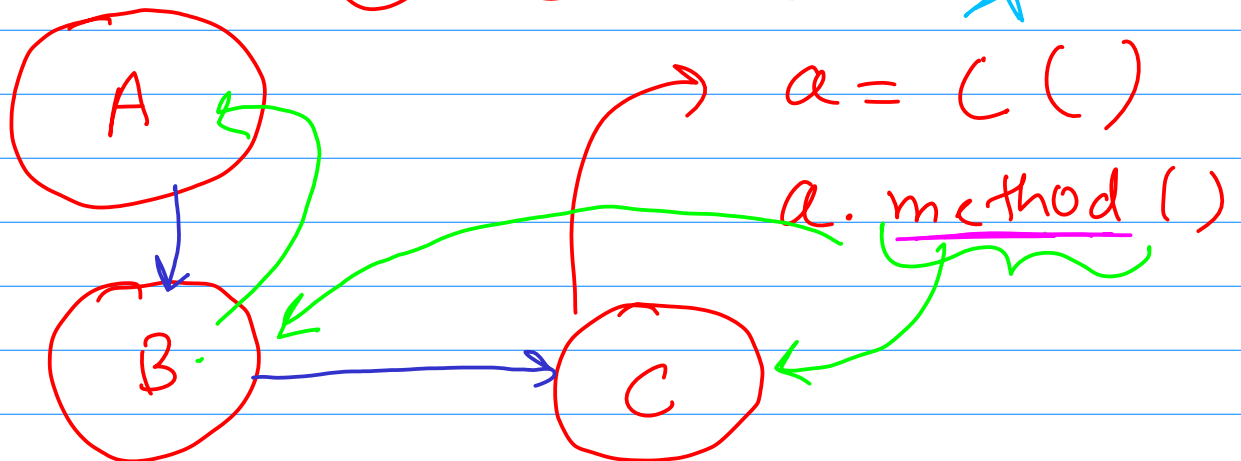
⇒ But first let's talk about lists

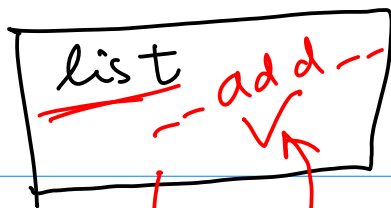


① $[1, 2, 3] + [3, 4, 2] = [4, 6, 5]$

in list

$[1, 2, 3] + [3, 4, 2] = [1, 2, 3, 3, 4, 2]$





$a = \text{List}(_)$

$b = \text{List}(_)$

$a + b$ → Overloaded by `--add--`

$\Rightarrow [1, 2, 3] + [4, 5, 6, 7]$

Raise an exception in this case

$a = [1, 2, 3], b = [4, 5, 6]$

$a[0] + b[0] \Rightarrow$
 $a[1] + b[1] \Rightarrow$
 $a[2] + b[2] \Rightarrow$

`empty = []`
`for i in range(3):`
`empty.append(a[i] + b[i])`