

Using '__mul__' within a class

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Hello

I'm pretty new to Python and was wondering why the 'Square' method in the following code doesn't work. It doesn't fail, just doesn't do anything (at least, not what I'd like!). Why doesn't 'A.a' equal 2 after squaring?
TIA.

```
class FibonacciMatrix:
def __init__( self ):
self.a = 1
self.b = 1
self.c = 0

def __mul__( self, other ):
result = FibonacciMatrix()
result.a = self.a * other.a + self.b * other.b
result.b = self.a * other.b + self.b * other.c
result.c = self.b * other.b + self.c * other.c
return result

def Square( self ):
self *= self

A = FibonacciMatrix()
A.Square()

print A.a #prints '1'

A = FibonacciMatrix()
B = A * A

print B.a #prints '2'
```

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