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**Arithmetic Operator Overloading**

**Write a program to perform the operator overloading for all Arithmetic Operator as shown below  
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**\*\***

class **c1**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

print(*"FIRST CLASS IS CALLED"*)

return

def **\_\_add\_\_**(*self*,other):

a=*self*.x+other.x

b=*self*.y+other.y

print(*"ADD"*)

return a,b

def **\_\_sub\_\_**(*self*,other):

a=*self*.x-other.x

b=*self*.y-other.y

print(*"SUB"*)

return a,b

def **\_\_mul\_\_**(*self*,other):

a=*self*.x\*other.x

b=*self*.y\*other.y

print(*"MUL"*)

return a,b

def **\_\_truediv\_\_**(*self*,other):

a=*self*.x/other.x

b=*self*.y/other.y

print(*"DIV"*)

return a,b

def **\_\_floordiv\_\_**(*self*,other):

a=*self*.x//other.x

b=*self*.y//other.y

print(*"floordiv"*)

return a,b

def **\_\_mod\_\_**(*self*,other):

a=*self*.x%other.x

b=*self*.y%other.y

print(*"mod"*)

return a,b

def **\_\_pow\_\_**(*self*,other):

a=*self*.x\*\*other.x

b=*self*.y\*\*other.y

print(*"pow"*)

return a,b

pass

o1=c1(10,20)

o2=c1(30,40)

print(o1+o2)

print(o1-o2)

print(o1\*o2)

print(o1/o2)

print(o1//o2)

print(o1%o2)

print(o1\*\*o2)

