```
class sample:
  def __init__(self,x):
    self.x = x
  def __call__(self):
    print(self.x)
  def __str__(self):
    return str(self.x)
```

```
s1 = sample(10)
s2 = sample(20)
print(s1 + s2)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-2-ef37e6c89406> in <cell line: 3>()
      1 s1 = sample(10)
      2 s2 = sample(20)
----> 3 print(s1 + s2)

TypeError: unsupported operand type(s) for +: 'sample' and 'sample'
```

SEARCH STACK OVERFLOW

Operator Overloading

```
i = 10
print(i)
```

```
10
```

```
def i():
  print('Hello, good afternoon')
```

```
i()
```

```
Hello, good afternoon
```

```
def addition(a,b):
  return a+b

def addition(a,b,c):
  return a+b+c

def addition(a,b,c,d):
  return a+b+c+d
```

```
print(addition(1,2))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-8-ddc1e0bc2190> in <cell line: 1>()
----> 1 print(addition(1,2))

TypeError: addition() missing 2 required positional arguments: 'c' and 'd'
```

SEARCH STACK OVERFLOW

```
class sample:
  def __init__(self,x):
    self.x = x
  def __call__(self):
    print(self.x)
  def __str__(self):
    return str(self.x)
  def __add__(self,other):
    return sample(self.x + other.x)
  def __sub__(self,other):
    return sample(self.x - other.x)
```

```
s1 = sample(10)
s2 = sample(20)
print(s1+s2)
```

```
30
```

```
s3 = sample(30)
print(s1+s2+s3)
```

```
60
```

```
print(s3-s2-s1)
```

```
0
```

```
print(s3-s2+s1)
```

```
20
```

✓ 0s completed at 2:42 PM ● ✕