```
def decor(func):
    def wrapper(a, b):
        return func(a, b) * 2
    return wrapper
def decor2(func):
    def wrapper(a, b):
        return func(a, b) - 2
    return wrapper
def sum(a, b):
    return a + b
fun1 = decor(sum)
fun2 = decor2(fun1)
res = fun2(5, 8)
print(res)
```

```
def decor(func):
    def wrapper(a, b):
        return func(a, b) * 2
    return wrapper
def decor2(func):
    def wrapper(a, b):
        return func(a, b) - 2
    return wrapper
@decor2
@decor
def sum(a, b):
    return a + b
print(sum(4, 5))
```

```
def outer(fun):
    def wrapper():
        a = fun()
        return a + 20
    return wrapper
@outer
def num(): #original
    return 10
print(num())
# num = outer(num)
\# res = num()
# print(res)
```

```
def outer(*args):
    def wrapper(func):
        res = 0
        for i in args:
            res += i
        return res
    return wrapper
@outer(4, 5, 6, 7)
def add(a , b):
    return a + b
print(add)
```

```
def outer(func):
    def wrapper(*args):
        res = 0
        for i in args:
            res += i
        return res
    return wrapper
@outer
def add(a , b):
    return a + b
print(add(3, 4))
print(add(3, 4, 1, 2))
```

```
def outer(*args, **kwargs):
    def wrapper(func):
        res = 0
        for i in args:
            res += i
            return f"{kwargs['name']} Total marks {res} and percentage {round(res/len(args),2)}"
    return wrapper

@outer(98, 67, 88, 98, 100, 87, name="Rahul")
def add(a , b):
    return a + b

print(add)
```