

## Problem Set 1, Problem 4

```
def foo(a, b):  
    b = b - 2  
    a = a - b  
    print('foo', a, b)  
    return a  
a = 8  
b = 6  
print(a, b)  
a = foo(a, b)  
print(a, b)  
foo(b, a)  
print(a, b)
```

### 4-1

global variables (ones that belong to the global scope)

a	b
8	6
4	6

local variables (ones that belong to foo)

a	b
4	4
4	2

output (the lines printed by the program)

8 6

foo 4 4

4 6

foo 4 2

4 6

#### 4-2

global variables (ones that belong to the global scope)

<b>a</b>	<b>b</b>
1	5
1	10

wow's local variables

<b>a</b>	<b>b</b>
5	10
1	2
3	6

yay's local variables

<b>a</b>	<b>b</b>
8	1

output (the lines printed by the program)

1 5

wow: 5 10

1 10

wow: 1 2

wow: 3 6

yay :8 1

1 10