

PS 2: Problem 5

5-1

```
lc = [3*y - 2 for y in range(5)]
```

y	lc
0	-2
1	-2, 1
2	-2, 1, 4
3	-2, 1, 4, 7
4	-2, 1, 4, 7, 10
5	-2, 1, 4, 7, 10, 13

5-2

```
def mystery(y):  
    lc = [x // 2 for x in range(y)]  
    return sum(lc)
```

```
x = 4  
y = 3  
print(x, y)  
x = mystery(x)  
print(x, y)  
global variables
```

x	y
4	3
2	3

local variables (ones that belong to mystery)

x	y	lc
0	4	0
1	4	0, 0
2	4	0, 0, 1
3	4	0, 0, 1, 1

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output (the lines printed by the program)

4 3

2 3