

## Problem Set 2, Problem 5

5-1

y	lc
0	[0,
1	[0, 1,
2	[0, 1, 4
3	[0, 1, 4, 9,
4	[0, 1, 4, 9, 16]

5-2

global variables

x	y
4	2
4	[0,1]
[0,1,2,0]	[0,1]

local variables (ones that belong to mystery)

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

output (the lines printed by the program)

```
4 2
0 1
4 [0, 1]
0 1 2 0
[0, 1, 2, 0] [0,1]
```