

Problem Set 6, Problems 0-2

Problem 0: Reviewing the range function and loops

0-1	0-2
a) [0, 1, 2, 3]	a) range(7)
b) [6, 7, 8, 9, 10, 11]	b) range(10, 15)
c) [1, 5, 9, 13]	c) range(15, 20, 2)
d) [18, 15, 12, 9, 6, 3]	

0-3

a) foo1([2, 4, 6, 8, 9])

x	x % 3 == 0
2	False
4	False
6	True

return value: True

b) foo1([1, 5, 7])

x	x % 3 == 0
1	False
5	False
7	False

return value: False

0-4

a) foo2([2, 4, 6, 8, 9])

x	x % 3 == 0
2	False

return value: False

b) how many repetitions?

explain briefly: Only one repetition because as there is an else statement with a return statement in it the program ONLY checks the first value in the list.

Problem 1: Working with nested loops

1-1

p	w
'super'	'class'
'super'	'sonic'
'super'	'group'
'sub'	'class'
'sub'	'sonic'
'sub'	'group'

output
superclass
rc
supersonic
rs
supergroup
rg
super
subclass
bc
subsonic
bs
subgroup
bg
sub

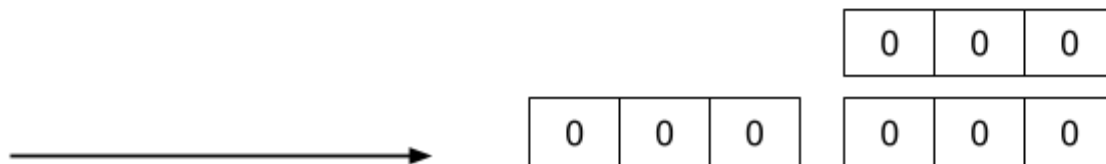
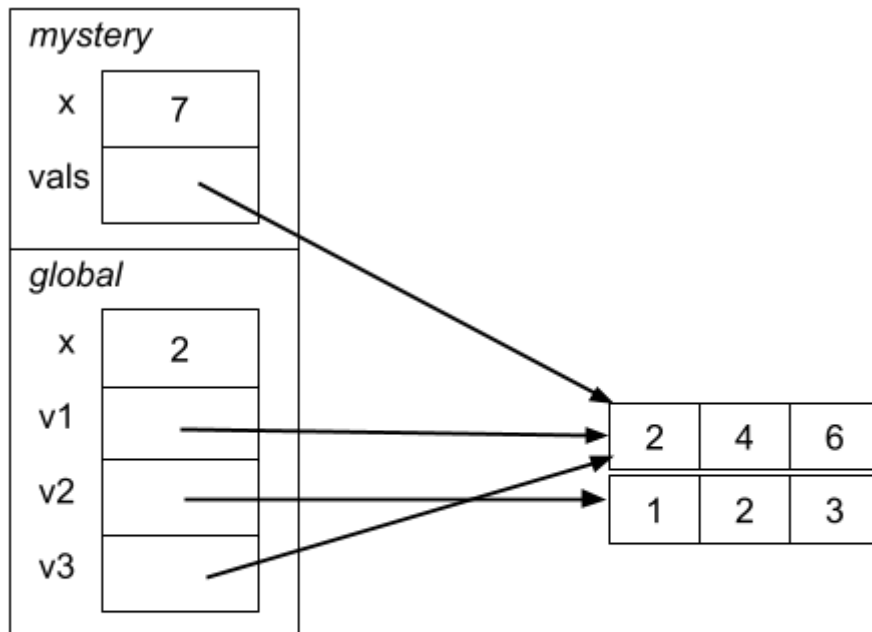
1-2

x	range(x, 6)	y	output
3	[3, 4, 5]	3	6
3	[3, 4, 5]	4	7
3	[3, 4, 5]	5	8
4	[4, 5]	4	8
4	[4, 5]	5	9
5	[5]	5	10
			5 5

Problem 2: Understanding references

IMPORTANT: This heading should appear at the very top of the third page.

2-1



2-2 output of program:

2

[2, 4, 6]

[1, 2, 3]

[2, 4, 6]