Problem Set 1, Problems 3: Statements, expressions and conditional execution

1-1. Tracing a simple program

line of code	x	y	z
x = 11	11		
y = 5	11	5	
y = y * 3	11	15	
z = y - x	11	15	4
x = x // 3	3	15	4
y = z % 3	3	1	4

1-2. Assignment statements and expressions

a)

a = a + 5

b)

b = b**a

c)

b = a / 3

d)

a==b

e)

a%3

f)

b<=6 or b>=16

1-3. Conditional execution: Calls to the function `mystery()`

function call	output
a. mystery([5, 7, 1])	mound redound

b. `mystery([4, 4, 6])`	round redound
c. `mystery([8, 6, 3])`	found redound
d. `mystery([1, 2, 3])`	zounds redound
e. `mystery([2, 8, 8])`	mound ground redound