Practice Problem 2.1

What is printed?

```
def addToG( deltaG ):
    global G
    G = G + deltaG
    print( G )

G = 1
print( G )
addToG( 10 )
print( G )
```

```
1
11
11
```

Practice Problem 2.2

What is printed?

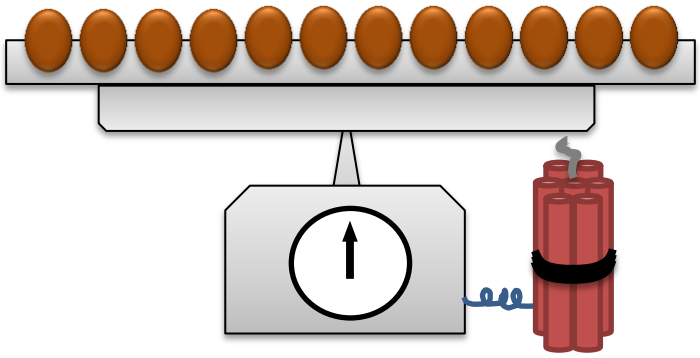
```
def setBathTemp( T ):
    temp = T
    temp += 1

def setHouseTemp( T ):
    global temp
    temp = T

temp = 65
print( temp )
setHouseTemp( 70 )
print( temp )
setBathTemp( 75 )
print( temp )
```

```
65
70
70
```

Practice Problem 2.3

Your younger brother tends to be eccentric. This Halloween he collected a carton full of chocolate Halloween eggs. You helped him complete his programming assignment leaving him time to play World of Warcraft with his friends. To show his gratitude he has offered you one of his chocolate Halloween eggs. To ensure you don't abscond with the entire carton, he has glued it to a scale and wired the scale to explosives. He informed you that if more than two eggs are removed from the carton, the explosives will detonate.

Describe a procedure that will let you select the heaviest egg (the one with the most chocolate) without detonating the explosives. Assume that your summer in Switzerland has made you an expert at estimating the weight of chocolate eggs.



1. **Pick up the first egg and hold it in one hand**
2. **While there are untested eggs …**
3. **Pick up the next egg in your other hand**
4. **Compare the weight of the two eggs**
5. **Put the lightest egg back in the carton**
6. **If all eggs are tested, stop**

Practice Problem 2.4

Complete the following function called maxVal(), which takes a list of numbers as its only argument (lst) and returns the maximum value in the list.

```
def maxVal( lst ):
    # Your implementation goes here

    max = lst[0]
    for e in lst:
        if e > max:
            max = e

    return max


lst = [3, 5, 2, 6, 5, 4, 8, 2]

print( maxVal( lst ) )
```