

1. Write down what each of the following code snippets will print:

- (a) 

```
for x in range(3):
    for y in range(x):
        print(x)
```
- (b) 

```
for i in range(20):
    if i % 4 == 1:
        print ("i: ", i)
```
- (c) 

```
xs = [4, 5, 6, "amy", 10, "cars"]
ys = ["x", "y", "z"]
zs = [103, 65]
print(xs + zs + ys)
```

2. Write a function that returns the longest word in a list of words.

3. What does the following code snippet print?

```
x = 3
y = 5
z = 7
if x == 3:
    print(y)
elif y == 5:
    print("??")
if z == 2:
    print(z)
else
    print("z")
    z = z + 2
if z == 9:
    print("Woo!")
```

