

### Question

1

What is wrong with this Python loop:

```
n = 5
while n > 0 :
    print n
print 'All done'
```

**This loop will run forever**

There should be no colon on the while statement

The print 'All done' statement should be indented four spaces

while is not a Python reserved word

Answer: This loop will run forever

### Question 2

What does the break statement do?

Jumps to the "top" of the loop and starts the next iteration

Resets the iteration variable to its initial value

**Exits the currently executing loop**

Exits the program

Answer: Exits the currently executing loop

### Question 3

What does the continue statement do?

Resets the iteration variable to its initial value

Exits the currently executing loop

**Jumps to the "top" of the loop and starts the next iteration**

Exits the program

Answer: Jumps to the "top" of the loop and starts the next iteration

### Question 4

What does the following Python program print out?

```
tot = 0
for i in [5, 4, 3, 2, 1] :
    tot = tot + 1
```

```
print tot
0
5
10
15
```

Answer: 5

#### Question 5

What is the iteration variable in the following Python code:

```
friends = ['Joseph', 'Glenn', 'Sally']
for friend in friends :
    print 'Happy New Year:', friend
print 'Done!'
friend
friends
Sally
Joseph
```

Answer: friend

#### Question 6

What is a good description of the following bit of Python code?

```
zork = 0
for thing in [9, 41, 12, 3, 74, 15] :
    zork = zork + thing
print 'After', zork
```

Sum all the elements of a list

Find the smallest item in a list

Count all of the elements in a list

Compute the average of the elements in a list

Answer: Sum all the elements of a list

#### Question 7

What will the following code print out?

```
smallest_so_far = -1
for the_num in [9, 41, 12, 3, 74, 15] :
    if the_num < smallest_so_far :
        smallest_so_far = the_num
print smallest_so_far
```

Hint: This is a trick question and most would say this code has a bug - so read carefully

-1

3

74

42

Answer: -1

#### Question 8

What is a good statement to describe the is operator as used in the following if statement:

```
if smallest is None :
    smallest = value
```

The if statement is a syntax error

matches both type and value

Is true if the smallest variable has a value of -1

Looks up 'None' in the smallest variable if it is a string

Answer: matches both type and value

#### Question 9

Which reserved word indicates the start of an "indefinite" loop in Python?

while

def

break

for

indef

Answer: while

### Question 10

How many times will the body of the following loop be executed?

```
n = 0
```

```
while n > 0 :
```

```
    print 'Lather'
```

```
print 'Rinse'
```

```
print 'Dry off!'
```

```
1
```

```
0
```

```
5
```

This is an infinite loop

Answer: 0

1. What is wrong with this Python loop:

1 / 1 point

```
1 n = 5
2 while n > 0 :
3     print(n)
4 print('All done')
```

✓ Correct

2. What does the **break** statement do?

1 / 1 point

✓ Correct

3. What does the **continue** statement do?

1 / 1 point

✓ Correct

4. What does the following Python program print out?

1 / 1 point

```
1 tot = 0
2 for i in [5, 4, 3, 2, 1] :
3     tot = tot + 1
4 print(tot)
```

✓ Correct

5. What is the *iteration* variable in the following Python code:

1 / 1 point

```
1 friends = ['Joseph', 'Glenn', 'Sally']
2 for friend in friends :
3     print('Happy New Year:', friend)
4 print('Done!')
```

✓ Correct

6. What is a good description of the following bit of Python code?

1 / 1 point

```
1 zork = 0
2 for thing in [9, 41, 12, 3, 74, 15] :
3     zork = zork + thing
4 print('After', zork)
```

✓ Correct

7. What will the following code print out?

1 / 1 point

```
1 smallest_so_far = -1
2 for the_num in [9, 41, 12, 3, 74, 15] :
3     if the_num < smallest_so_far :
4         smallest_so_far = the_num
5 print(smallest_so_far)
```

Hint: This is a trick question and most would say this code has a bug - so read carefully

✓ Correct

8. What is a good statement to describe the **is** operator as used in the following if statement:

1 / 1 point

```
1 if smallest is None :
2     smallest = value
```

✓ Correct

9. Which reserved word indicates the start of an "indefinite" loop in Python?

1 / 1 point

✓ Correct

10. How many times will the body of the following loop be executed?

1 / 1 point

```
1 n = 0
2 while n > 0 :
3     print('Lather')
4     print('Rinse')
5 print('Dry off!')
```

✓ Correct