Survey #2

Name:

Consider the follow code segment:

```
a = int(input())
b = int(input())
if (a < b):
    for i in range(a,b):
        print(i)
elif (b < a):
        for i in range(b,a):
            print(i * -1)
else:
        print(0)
```

1: What is the minimum number of test cases that are required in order to achieve statement level test coverage?

2: Define a set of test cases that will provide statement level test coverage. Clearly indicate what value is entered for a and what value is entered for b for each test case.

3: Which of the following statements is most correct?

- A. A for loop is an example of a post-tested loop
- B. A for loop always counts from one value to another, increasing by one each time
- C. Two loops are said to be nested when one loop executes completely before the second loop executes for the first time
- D. Every while loop can be rewritten as a for loop
- E. None of the above answers are correct

Answer: _____

4: What output will result when the following Python statement is executed?

print("3" + 5)

A. 8

- B. 8.0
- C. 35
- D. 35.0
- E. None of the above answers are correct

Answer: _____

Consider the following code segment:

9: Rewrite the program shown below so that it uses a while instead of using a for loop.

```
a = int(input("Enter a: "))
b = int(input("Enter b: "))
total = 0
for i in range(a,b,3):
    if (i % 2) == 0:
       total = total + i
    else:
        total = total - i
print(total)
```

10: What output is generated by the following program?

```
for i in range(0,2):
   for j in range(0,2):
    for k in range(0,2):
        print(i,j,k)
```