5)
```
int count = 0;
while (count <= 3)
{
    count++;
    System.out.print(count + "  ");
}
```

5a) **Memory Simulation:**

count
0

b) Last value of count: _____

c) Output: _____

6)
```
int count = 0;
while (count <= 3)
{
    System.out.print(count + "  ");
    count++;
}
```

6a) **Memory Simulation:**

count
0

b) Last value of count: _____

c) Output: _____

7)
```
int count = 1;
while (count <= 3)
{
    count++;
    System.out.print(count + "  ");
}
```

7a) **Memory Simulation:**

count
1

b) Last value of count: _____

c) Output: _____

8)
```
int count = 1;
while (count <= 3)
{
    System.out.print(count + "  ");
    count++;
}
```

8a) **Memory Simulation:**

count
1

b) Last value of count: _____

c) Output: _____

AP Chapter 6 Worksheet 1 while Loop

Name _____

Pts: 10

class hour _____

I. In the following program segments do:

a) Show the memory simulation for the variable count (0.25 pts each)
b) Write the last value of count upon completion of the **while** loop (0.5 pt each)
c) Write the output (0.5 pt each)

1)
```
int count = 0;
while (count < 3)
{
    count++;
    System.out.print(count + "  ");
}
```

1a) **Memory Simulation:**

count
0

b) Last value of count: _____

c) Output: _____

2)
```
int count = 0;
while (count < 3)
{
    System.out.print(count + "  ");
    count++;
}
```

2a) **Memory Simulation:**

count
0

b) Last value of count: _____

c) Output: _____

3)
```
int count = 1;
while (count <3)
{
    count++;
    System.out.print(count + "  ");
}
```

3a) **Memory Simulation:**

count
1

b) Last value of count: _____

c) Output: _____

4)
```
int count = 1;
while (count < 3)
 {
    System.out.print(count + "  ");
    count++;
 }
```

4a) **Memory Simulation:**

count
1

b) Last value of count: _____

c) Output: _____