for Loop Test 1

1. Look at the following code segment.

```
for (int j = 0; /* condition */ ; /* increment */)
{
    System.out.println("Computers are fun!");
}
```

Which of the following replaces /* condition */ and /* increment */ so that the loop executes the println statement 20 times?

```
A) j < 20          j++
B) j <= 20         j++
C) j < 20          j+1
D) j <= 20         j+1
```

2. How many times is the println statement executed in the following code?

```
for (int i = 1; i <= 10 ; i+=2)
{
    System.out.println("Howdy!");
}
```

A) 5
B) 10
C) 6
D) 11

3. How many times is the println statement executed in the following code?

```
int start = 10;
for (int x = start-1; x >= 0; x--)
{
    System.out.println("Good Grief!");
}
```

A) 9
B) 10
C) 11
D) None, there is an error

4. What is output by the following code segment?

```
for (int j = 0; j < 5; j++)
{
    System.out.print(j + " ");
}
System.out.println();
```

A) 0
B) 5
C) 0 1 2 3 4 5
D) 0 1 2 3 4

5. What is output by the following code segment?

```
int count = 0;
for (int j = 1; j <= 10; j++)
{
    if (j % 2 == 0)     // if j is even
        count++;
}
System.out.println(count);
```

A) 0
B) 2
C) 5
D) 10

6. What is output by the following code segment?

```
String str = "cowboy";
String str2 = "";
for (int j = 0; j < str.length()/2; j++)
{
    str2 += str.substring(j, j+1);
}
System.out.println(str2);
```

A) cow
B) boy
C) coy
D) cowboy