Loop/IF Quiz

1. How many times does the following loop execute,

```java
int counter = 1;

for (counter = 1; counter < 10; counter += 4) {
    // do something
}
```

2. Write down the exact output of the following loop.

```java
for (int i = 5; i > -1; i--) {
    System.out.print(i + "- ");
}
```

3. Write the exact output of this loop.

```java
for (int i = 5; i <= 20; i *= 2) {
    System.out.print(i);
}
```

4. Write down the exact output of the following loop.

```java
for (int i = 10; i <= 16; i++) {
    if (i % 2 == 0) {
        System.out.print(i);
    }
}
```

5. Write the exact output of this loop:

```java
for (int j = 4; j>=3;j--) {
    // integer division.. think about the answer.
    System.out.print((j / 2) + "\t");
}
```
6. Write down the exact output of this loop.

```java
for (int j = 1; j<=4; j++) {
    int m = j;
    while (m < 4) {
        System.out.print((m + j) + "	");
        m++;
    }
    System.out.println();
}
```

7. Write down the exact output of this loop.

```java
int limit = 10 % 3;
int count = 1;
while (count <= limit )
{
    if (count % 2 == 1) {
        System.out.println( count );
    }
    count = count + 1;
}
System.out.println( "Done with the loop" );
```

8. Write the exact output of this loop.

```java
int count = 1;
int num = 0;
while ( count <= 3 ) {
    // look at this carefully...
    num = num * count;
}
System.out.println( count );
```

9. Write the exact output of this loop.

```java
int j = 100;
while (j != 1) {
    j--;
}
System.out.println(j);
```

10. How many times does this loop execute?

```java
int j = 1;
while (j <10) {
    System.out.println(j);
    j *=j;
}
```