Name:  

1. What loop should you choose if you would like to perform an operation:
   - Zero or more iterations? while-loop
   - One or more iterations? do-while-loop
   - A specific number of iterations? for-loop
   - Infinite number of iterations? while-loop

2. Scope defines the lifetime of a variable, i.e., the rules of when a program is allowed to refer to a variable’s identifier.

3. How many times does the following loop in Java execute? 8
   ```java
   int n = 50;
   do {
     if(n % 2 == 0)
       n = n / 2;
     else
       n = n - 1;
   } while(n > 0)
   ```

4. What is output by the following Java code? 22
   ```java
   int v = 42;
   for(int i = 0; i < 5; ++i) {
     if(v % 3 == 0)
       v += 2;
     else if(v % 3 == 1)
       v /= 2;
     else
       v -= 1;
   }
   System.out.println(v);
   ```

5. Bonus. What is the Java construct to allow a “break” to reach the outermost loop when nesting? Provide an example.

   Labeled break.

   ```java
   point:
   for(;;) { //Whatever here
     for(;;) { //Whatever here
       break point;
     }
   }
   ```