

Lab 5a - Code Segments

Name _____

Trace the following code segments by hand. In the provided area, write the display exactly as it will appear.

1. What is the output?

```
int n = 10;

while (n > 0) {
    if (n % 2 == 0)
        cout << "Number: " << n << endl;
    n = n - 1;
}

cout << "What are these numbers?" << endl;
```

Output:

2. What is the output?

```
int n = 10;

do {
    if (n % 2 != 0)
        cout << "Number: " << n << endl;
    n = n - 1;
} while (n > 0);

cout << "What are these numbers?" << endl;
```

Output:

3. What is the output? (Hint: watch for new line breaks or lack of them.)

```
int m, n = 5;

do {
    cout << n << " ";
    m = 1;

    do {
        cout << m << " ";
        m = m + 1;
    } while (m < 3);

    n = n - 1;
    cout << endl;
} while (n > 0);
```

Output: