

Worksheet #9

CS 1405

Instructor: Garth O. Sorenson

Name: _____

Score: _____

1. Write `for` loop headers that process all integer values in the ranges indicated below.

a. -10 through 10

b. 100 through 1

2. The following `for` loop is intended to display the values of `i` from 1 to 10. But the loop does not work correctly. Explain what the problem is and describe how to correct it.

```
for (int i = 0; i < 10; i++)
{
    cout << i++;
}
```

3. What output is displayed by the following code segment?

```
for (int i = 0; i < 5; i++)
{
    for (int j = 0; j < i; j++)
        cout << '*';
}
```

4. What output is produced by the following do-while loop?

```
int m = 12;
do
{
    cout << m << endl;
    m = m - 3;
}
while (m > 0);
```

5. Write a code segment that prompts a user for a value between -20 and 20 inclusive. It should valid the input using a while loop.

6. Convert the following for loop to a while loop.

```
for (int i = 0; i < 10; i++)
    cout << i;
```