

Day 5--Concept Questions

Name: _____

CM: _____

1. Consider the following piece of code:

```
1 for n = 1:2:6
2     var = n^2;
3 end
```

The table below has a column for how many steps this program will take to run. Each step corresponds to a particular line number in the program. For each step, write out the variables that exist after that line executes and what the values of those variables are.

Step	Line #	Variables
1	1	
2	2	
3	3	
4	1	
5	2	
6	3	
7	1	
8	2	
9	3	

(over)

2. Consider the following piece of code:

```
for x = 2.0:0.2:0.0
    fprintf('x = %4.2f    x_sq = %6.2f.\n', x, x^2);
end
```

What is the third line of the output upon executing the above code? Explain.

3. Consider the following piece of code:

```
for x = 2.0:-0.2:0.0
    fprintf('x = %4.2f    x_sq = %6.2f.\n', x, x^2);
end
```

What is the third line of the output upon executing the above code? Explain.