16.216: ECE Application Programming Fall 2015

1 411 2010

Lecture 7: Key Questions September 18, 2015

1. Explain the basic form of an if statement.

2. Describe how the expression in if (<expression>) is evaluated and show how conditions are evaluated, including multiple conditions in the same expression.

3. Describe how the statement—the actual code to be executed if the condition is true—is written for an if statement.

4. Show how multiple if statements can be nested together (if/else if/else).

5. **Example:** What does the following code print?

```
int main() {
   int x = 3;
   int y = 7;

if (x > 2)
       x = x - 2;
   else
       x = x + 2;

if ((y % 2) == 1)
   {
       y = -x;
       if ((x != 0) && (y != -1))
            y = 0;
   }
   printf("x = %d, y = %d\n", x, y);
   return 0;
}
```