How NOT to Win Friends and Influence Objects

Okay, but how do you keep from doing this? The principle provides some guidelines: take any object, and from any method in that object, invoke only methods that belong to:

- The object itself
- Objects passed in as a parameter to the method
- Any object the method creates or instantiates

This sounds kind of stringent, doesn't it? What's the harm in calling the method of an object we get back from another call? Well, if we were to do that, then we'd be making a request of another object's subpart (and increasing the number of objects we directly know). In such cases, the principle forces us to ask the object to make the request for us; that way, we don't have to know about its component objects (and we keep our circle of friends small). For example:

Notice that these guidelines tell us not to call methods on objects that were to call methods on calling other methods!!

Think of a "component" as any object that is referenced by an instance variable. In other words, think of this as a HAS-A relationship.

```
public float getTemp() {
Without the
                    Thermometer thermometer = station.getThermometer();
Principle
                    return thermometer.getTemperature();
              }
                                                              Here we get the thermometer object
                                                              from the station and then call the
                                                              getTemperature() method ourselves.
With the
              public float getTemp() {
Principle
                    return station.getTemperature();
              }
                                                     When we apply the principle, we add a method
                                                     to the Station class that makes the request
                                                     to the thermometer for us. This reduces the
                                                     number of classes we're dependent on.
```