

## 4.3 Method Overloading

You can write methods with the same name, as long as the parameter lists are different. Java will detect which one to call based on the actual parameters you use. (This also works for constructors)

### Example:

```
public int getMax(int x, int y) { ... }  
public int getMax(int x, int y, int z) { ... }
```

```
getMax(5, 9);           will call the first method above  
getMax(5, 9, 3);       will call the second method above
```

### The rule:

- The signature of a method consists of: (1) the method name and, (2) the number, data types, and order of the parameters
- The actual parameters in a method call determine which signature it matches up with.