

## Special Topic 7.1

## Methods with a Variable Number of Parameters

Starting with Java version 5.0, it is possible to declare methods that receive a variable number of parameters. For example, we can modify the add method of the DataSet class of Chapter 6 so that one can add any number of values:

```
data.add(1, 3, 7);
data.add(4);
data.add(); // OK but not useful
```

```
The modified add method must be declared as
  public void add(double... values)
The ... symbol indicates that the method can receive any number of double values. The xs
  public class DataSet
```

if (count ==  $0 \mid \mid maximum < x$ ) maximum = x;

double x = values[i]; sum = sum + x;

count++:

```
parameter is actually a double[] array that contains all values that were passed to the method.
The method implementation traverses the parameter array and processes the values:
      public void add(double... values)
         for (int i = 0; i < values.length; i++) // values is a double[]
```