```
public class FirstFirst
extends Namer {
    //extracts first name from last name
    //when separated by a space
    public FirstFirst(String s) {
        int i = s.lastIndexOf(" ");  //find sep space
        if (i > 0) {
           first = s.substring(0, i).trim();
           last = s.substring(i + 1).trim();
        } else {
           first = "";               // if no space
           last = s;                 // put all in last name
        }
    }
}
```

And in the LastFirst class, we assume that a comma delimits the last name. In both classes, we also provide error recovery in case the space or comma does not exist.

```
public class LastFirst extends Namer {
// extracts last name from first name
// when separated by a comma
    public LastFirst(String s) {
        int i = s.indexOf(",");      //find comma
        if (i > 0) {
           last = s.substring(0, i).trim();
           first = s.substring(i + 1).trim();
        } else {
           last = s;                 //if no comma,
           first = "";               //put all in last name
        }
    }
}
```

Building the Simple Factory

Now our simple Factory class is extremely simple. We just test for the existence of a comma and then return an instance of one class or the other.

```
public class NamerFactory {
    //Factory decides which class to return based on
    //presence of a comma
    public Namer getNamer(String entry) {
        //comma determines name order
        int i = entry.indexOf(",");
        if (i > 0)
           return new LastFirst(entry);
        else
```