Figure 7.2 Another example: string reversal.

Let's write a method that returns its one string parameter with its characters in reverse order.

- again, **don't start by writing code!**
- think first of how you would approach the problem yourself
  - one possibility: for each character from the end to the beginning, write the character down
  - another possibility: for each character from the beginning to the end, write the character down, but write from right to left

```
// reverse: returns "reverse" of its parameter
public static String reverse (String original) {
    String reversed = "";     // to contain the reverse of the original string
    int pos = original.length() – 1;     // keeps track of where we are in the original

    // for each character …
    while (pos >= 0) {
        reversed = reversed + original.charAt(pos);     // write it down
        pos –= 1;     // next character
    }
    return reversed;
}
```

Now, in **main()**, we can invoke this method with something like

```
System.out.println(reverse("Montreal"));
```