### Printing a String Backwards using Recursion

Here is a recursive description of reversing a string:

* If the string has one character in it 🡺 the answer is that character.
* If the string has more than one character in it 🡺the answer is the last character concatenated with the rest of the string reversed.

Write a program called ReverseString follows:

* Write the reverseString method as per above. Make sure it is a static method because you will be calling it from a static context. It should take a single parameter, a String. It should return a String. Note that the quick-reference for methods of String you need to know is listed below. You will get a list of these on the AP test.
* In the main method, ask for a string from the keyboard, and send it to your printBackwards method.

**class java.lang.String**

• int length()

• String substring(int from, int to) // returns the substring beginning at from

// and ending at to-1

• String substring(int from) // returns substring(from, length())

• int indexOf(String str) // returns the index of the first occurrence of str;

// returns -1 if not found

• int compareTo(String other) // returns a value < 0 if this is less than other

// returns a value = 0 if this is equal to other

// returns a value > 0 if this is greater than other