Palindromes

a st	ring is a palindrome. However, it is also easy to define a palindrome recursively as follows:
	A string containing fewer than 2 letters is always a palindrome. A string containing 2 or more letters is a palindrome if its first and last letters are the same, and the rest of the string (without the first and last letters) is also a palindrome.
sho	ite a program that prompts for and reads in a string, then prints a message saying whether it is a palindrome. Your main method buld read the string and call a recursive (static) method <i>palindrome</i> that takes a string and returns true if the string is a palindrome see otherwise. Recall that for a string s in Java,
	$s.length()$ returns the number of characters in s $s.charAt(i)$ returns the i^{th} character of s , 0-based $s.substring(i,j)$ returns the substring that starts with the i^{th} character of s and ends with the $j-1^{st}$ character of s (not the j^{th}), both 0 based.
So	if $s=$ "happy", $s.length=5$, $s.charAt(1)=a$, and $s.substring(2,4)=$ "pp".

A palindrome is a string that is the same forward and backward. In Chapter 5 you saw a program that uses a loop to determine whether