***18.8** (*Print the digits in an integer reversely*) Write a recursive method that displays an `int` value reversely on the console using the following header:

```
public static void reverseDisplay(int value)
```

For example, `reverseDisplay(12345)` displays `54321`. Write a test program that prompts the user to enter an integer and displays its reversal.

***18.9** (*Print the characters in a string reversely*) Write a recursive method that displays a string reversely on the console using the following header:

```
public static void reverseDisplay(String value)
```

For example, `reverseDisplay("abcd")` displays `dcba`. Write a test program that prompts the user to enter a string and displays its reversal.

***18.10** (*Occurrences of a specified character in a string*) Write a recursive method that finds the number of occurrences of a specified letter in a string using the following method header:

```
public static int count(String str, char a)
```

For example, `count("Welcome", 'e')` returns `2`. Write a test program that prompts the user to enter a string and a character, and displays the number of occurrences for the character in the string.

***18.11** (*Sum the digits in an integer using recursion*) Write a recursive method that computes the sum of the digits in an integer. Use the following method header:

```
public static int sumDigits(long n)
```

For example, `sumDigits(234)` returns $2 + 3 + 4 = 9$. Write a test program that prompts the user to enter an integer and displays its sum.

***18.13** (*Find the largest number in an array*) Write a recursive method that returns the largest integer in an array. Write a test program that prompts the user to enter a list of eight integers and displays the largest element.