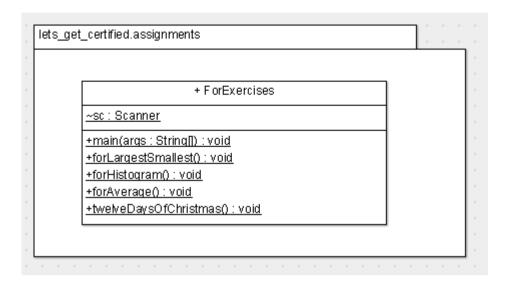
for exercises



1. Write a method called *forLargestSmallest()*. Ask the user for *n* which will determine the number of numbers in the sequence. If *n* is <= 0 flag an error; otherwise, using a *for* loop, figure out the largest and smallest numbers in the sequence (which will be entered by the user). Cater for the following situations: if the user enters **all** negative/positive numbers, 0 should not be the either the largest or smallest number. For example:

Enter n: 2

Enter a number: -2

Enter a number: -4

The largest number is -2.

The smallest number is -4.

2. In a method called *forHistogram()*, ask the user for the number of rows and columns. Using *for* loops, output a histogram i.e. if rows is 3 and columns is 4, then output 3 rows, each row containing 4 stars each.

Sample output:

```
Enter number of rows --> 2
Enter number of cols --> 5
*****
```

- 3. In a method called *forAverage()*, calculate the average of *n* numbers where *n* is based on user input i.e. ask the user for the number of numbers in the sequence. If *n* is <= 0 flag an error; otherwise, using a *for* loop, loop for that number of iterations *n*. In each iteration, get in a number *num* from the user. Keep a running *total*. When the loop is finished, calculate the average without losing decimal places. Do not divide by 0.
- 4. In a method called *twelveDaysOfChristmas()*, using a *for* loop and two inner *switch* statements, output the following. Note: "On the" is a hardcoded String literal. So also is "day of Christmas\nMy true love sent to me: ". The output of the first *switch* statement is in yellow. The output of the second *switch* statement is in light blue.

On the first day of Christmas, My true love sent to me:

A partridge in a pear tree.

On the second day of Christmas, My true love sent to me:

Two turtle doves, and A partridge in a pear tree.

On the third day of Christmas, My true love sent to me:

Three French hens, Two turtle doves, and A partridge in a pear tree.

On the fourth day of Christmas, My true love sent to me:

Four calling birds,
Three French hens,
Two turtle doves, and
A partridge in a pear tree.

On the fifth day of Christmas, My true love sent to me:

Five golden rings,
Four calling birds,
Three French hens,
Two turtle doves, and
A partridge in a pear tree.

On the sixth day of Christmas, My true love sent to me:

Six geese a-laying,
Five golden rings,
Four calling birds,
Three French hens,
Two turtle doves, and
A partridge in a pear tree.

On the seventh day of Christmas, My true love sent to me:

Seven swans a-swimming,
Six geese a-laying,
Five golden rings,
Four calling birds,
Three French hens,
Two turtle doves, and

A partridge in a pear tree.

On the eighth day of Christmas, My true love sent to me:

Eight maids a-milking,
Seven swans a-swimming,
Six geese a-laying,
Five golden rings,
Four calling birds,
Three French hens,
Two turtle doves, and
A partridge in a pear tree.

On the ninth day of Christmas, My true love sent to me:

Nine ladies dancing,
Eight maids a-milking,
Seven swans a-swimming,
Six geese a-laying,
Five golden rings,
Four calling birds,
Three French hens,
Two turtle doves, and
A partridge in a pear tree.

On the tenth day of Christmas, My true love sent to me:

Ten lords a-leaping,
Nine ladies dancing,
Eight maids a-milking,
Seven swans a-swimming,
Six geese a-laying,
Five golden rings,
Four calling birds,
Three French hens,
Two turtle doves, and
A partridge in a pear tree.

On the eleventh day of Christmas, My true love sent to me:

Eleven pipers piping,
Ten lords a-leaping,
Nine ladies dancing,
Eight maids a-milking,
Seven swans a-swimming,
Six geese a-laying,
Five golden rings,
Four calling birds,

Three French hens, Two turtle doves, and A partridge in a pear tree.

On the twelfth day of Christmas, My true love sent to me:

Twelve drummers drumming,

Eleven pipers piping,

Ten lords a-leaping,

Nine ladies dancing,

Eight maids a-milking,

Seven swans a-swimming,

Six geese a-laying,

Five golden rings,

Four calling birds,

Three French hens,

Two turtle doves, and

A partridge in a pear tree.