Your Turn

- For each of the following tasks design an appropriate method header:
  - The task is to compute the integer average of three given integer numbers
  - The task is to output to the screen the information of a doctor's patient, given the name, age, weight (in pounds), and height (in feet) of the patient
  - Given the first name, middle initial, and last name of a person, the task is to concatenate them and return the result (e.g., “Earl E. Bird”)

Your Turn cont.

- Compute integer average of three integers
  ```java
  private static int average(int a, int b, int c)
  ```

- Print information of patient, given name, age, weight (in pounds), height (in feet) of patient
  ```java
  private static void printInfo(String name, int age, double weight, double height)
  ```

- Concatenate first name, middle initial, and last name of a person, and return the result
  ```java
  private static String concat(String first, char middle, String last)
  ```
Your Turn, Still

- Design and implement a class method that inputs a sequence of non-negative real numbers from a given Scanner, and returns the average of the numbers read. The method stops reading numbers when a negative number is entered.

Method: average

```java
private static double average(Scanner in) {
    int count = 0;
    double sum = 0.0;
    double x = in.nextDouble();
    while (x >= 0.0) {
        sum = sum + x;
        count = count + 1;
        x = in.nextDouble();
    }
    return sum / count;
}
```
Your Turn, Last Time

- Design and implement a class method that given a String and a character, returns the index of the last occurrence of the character in the string (or -1 if the character does not occur in the string).

Method: indexOfLast

```java
private static int indexOfLast(String s, char c)
{
    int pos = s.length() - 1;
    boolean found = false;
    while (!found && (pos >= 0))
    {
        if (s.charAt(pos) == c)
        {
            found = true;
        }
        else
        {
            pos = pos - 1;
        }
    }
    return pos;
}
```