Scanner as a Parameter

Scanner as Parameter

- You should only have one Scanner for console input.
- If you need to use the console Scanner in multiple methods, it should be passed as a parameter.
 - The parameter is passed by reference.

Code Example

NOTE:

When passed as a parameter, though it's the SAME Scanner, it could be named differently in each method.

```
import java.util.Scanner;
public class CourseInfoMethod {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        String course = getCourse(input);
        int creditInt = getHours(input);
        System.out.println("[" + course + "] "
                             + creditInt + " credit hours");
    }
     * Reads in and returns the course name entered by the user
     * @param console input scanner
     * @return course name
    public static String getCourse(Scanner console) {
        System.out.print("Enter Course: ");
        return console.next();
     * Reads in and returns the number of credit hours entered by the user
     * @param scnrinput scanner
     * @return credit hours
     */
    public static int getHours(Scanner scnr) {
        System.out.print("Enter credit hours: ");
        return scnr.nextInt();
```



A farm sells organic brown eggs to local customers. They charge \$3.25 for a dozen eggs, or 45 cents for individual eggs that are not part of a dozen. Write a class called **Eggs** that

- 1. prompts the user for the number of eggs in the order, and then
- 2. Displays the amount owed with a full explanation in the following format (NOTE: keep 2 decimal places for total):

```
$ javac Eggs.java
$ java Eggs
How many eggs would you like to buy? 27
You ordered 27 eggs. That is 2 dozen at $3.25 per dozen
and 3 loose eggs at 45 cents each for a total of $7.85.
```

```
import java.util.Scanner;
public class Eggs {
                                                               Sample
    public static final double DOZEN PRICE = 3.25;
                                                               Solution
    public static final double LOOSE PRICE = 0.45;
    public static void main(String[] args) {
       Scanner input = new Scanner(System.in);
       int numEggs = getNumEggs(input);
       calcPrice(numEggs);
    public static int getNumEggs(Scanner input) {
        System.out.print("How many eggs would you like to buy? ");
        return input.nextInt();
    public static void calcPrice(int numEggs) {
       int numDozenEggs = numEggs / 12;
       int numLooseEggs = numEggs % 12;
       double totalPrice = numDozenEggs * DOZEN_PRICE + numLooseEggs * LOOSE_PRICE;
       System.out.printf("You ordered %d eggs. That is %d dozen at $%.2f per dozen\n",
                         numEggs, numDozenEggs, DOZEN PRICE);
       System.out.printf("and %d loose eggs at %.0f cents each for a total of $%.2f.\n",
                         numLooseEggs, LOOSE PRICE * 100, totalPrice);
```