

Digits extractor

```
package Mastery;

import java.util.Scanner;

class Num {
    private int number;

    String (int number) {
        this.number = number;
    }

    String int getWhole() {
        return number;
    }

    String getOnes() {
        return Math.abs(number) % 10;
    }

    String getTens() {
        return (Math.abs(number) / 10) % 10;
    }

    String getHundreds() {
        return (Math.abs(number) / 100) % 10;
    }
}
```

The errors I made with this code is

Error1: Remove the String return type. The constructor should only have the class name (Num) and parameters.

Error2: Change the return type of getWhole(), getOnes(), getTens(), and getHundreds() to int because they deal with integer values.

Error3: Add a main method to allow the program to run and test your Num class

Savings

```
        System.out.println("Invalid coin type.");
    }
}

public void removeCoins(String coinType, int amount) {
    if (coins.containsKey(coinType)) {
        if (coins.get(coinType) >= amount) {
            coins.put(coinType, coins.get(coinType) - amount);
        } else {
            System.out.println("Not enough coins to remove.");
        }
    } else {
        System.out.println("Invalid coin type.");
    }
}

public void totalAmount() {
    return coins.get("pennies") * 0.01 +
           coins.get("nickels") * 0.05 +
           coins.get("dimes") * 0.10 +
           coins.get("quarters") * 0.25;
}
}
```

Error1

- I was trying to return a double value from the `totalAmount()` method, but you didn't specify the return type (double).
- The method should return a double because it calculates a total amount in currency, which involves decimal values (like 0.01, 0.05, etc.).

Error2

- The `totalAmount()` method assumes that the keys in the `coins` map are "pennies", "nickels", "dimes", and "quarters",

Error3

- In the `addCoins` and `removeCoins` methods, I was updating the `coins` map directly, but there is no check for whether the `coinType` exists in the `coins` map in the

addCoins method. If the coinType is invalid, the code doesn't add it, which may be intentional.

Error4

- I assumed that the coins map is already initialized, but there is no initialization shown in the code snippet.

LunchOrder

```
public static double getPrice() {  
    return price;  
}  
  
public static void getFat() {  
    return fat;  
}  
  
public static double getCarbs() {  
    return carbs;  
}  
  
public static double getFiber() {  
    return fiber;  
}
```

- Error1 The methods getPrice(), getFat(), and getCarbs() are static, meaning they belong to the class itself and not to an instance of the class. As a result, they can only access static fields (variables that are also declared static).
 - Error2 The method getFiber() is non-static (an instance method), meaning it is designed to access instance variables, which are tied to a particular instance of the class.
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