

Accounting Example: Expense Report Original Design

```
public class Expense {
    public enum Type {DINNER, BREAKFAST, CAR_RENTAL};
    public Type type;
    public int amount;

    public Expense(Type type, int amount) {
        this.type = type;
        this.amount = amount;
    }
}

public class printReport {

    public void printReport(ReportPrinter printer) {
        int total = 0;
        int mealExpenses = 0;

        printer.print("Expenses_" + getDate() + "\n");

        for (Expense expense : expenses) {
            if (expense.type == BREAKFAST || expense.type == DINNER)
                mealExpenses += expense.amount;

            String name = "TILT";
            switch (expense.type) {
                case DINNER: name = "Dinner"; break;
                case BREAKFAST: name = "Breakfast"; break;
                case CAR_RENTAL: name = "Car_Rental"; break;
            }

            printer.print(String.format("%s\t%s\t$%.02f\n",
                (expense.type == DINNER && expense.amount > 5000)
                || (expense.type == BREAKFAST && expense.amount > 1000) ? "X" : "_",
                name, expense.amount / 100.0));

            total += expense.amount;
        }
        printer.print(String.format("\nMeal_Expenses_$.02f", mealExpenses / 100.0));
        printer.print(String.format("\nTotal_$.02f", total / 100.0));
    }
}
```