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fix DataClass code smell using the move mehod refatoring technique
d Card.java:1-21
8 GitHub Copilot
Let's fix the DataClass code smell in Card.java by adding behavior to make it more than just a data holder.
 1. Identify that Card is currently just holding data (question/answer)
 2. Add meaningful methods that provide behavior
 3. Move validation and formatting logic into the Card class
 4. Add methods to check answer correctness and manage card state
Implementation:
 package org.example.studycards;
 public class Card {
     private String question;
     private String answer;
     private int attempts;
     private int correctAnswers;
     public Card(String question, String answer) {
         validateInputs(question, answer);
         this.question = question.trim();
         this.answer = answer.trim();
         this.attempts = 0;
         this.correctAnswers = 0;
     private void validateInputs(String question, String answer) {
          if (question == null || question.trim().isEmpty()) {
              throw new IllegalArgumentException("Question cannot be empty");
          if (answer == null || answer.trim().isEmpty()) {
              throw new IllegalArgumentException("Answer cannot be empty");
```

```
public boolean checkAnswer(String providedAnswer) {
    attempts++;
    boolean isCorrect = answer.equalsIgnoreCase(providedAnswer.trim());
    if (isCorrect) {
        correctAnswers++;
    return isCorrect;
public double getSuccessRate() {
    return attempts == 0 ? 0 : (double) correctAnswers / attempts * 100;
public boolean needsReview() {
  return getSuccessRate() < 75;
public String getQuestion() {
  return question;
public String getAnswer() {
   return answer;
public int getAttempts() {
   return attempts;
public int getCorrectAnswers() {
   return correctAnswers;
```