

# Java Programming Challenges

generate me a moderate level of programs in java

Here are a few moderate-level Java programming challenges that cover a variety of concepts, including data structures, algorithms, and object-oriented programming principles:

## 1. Palindrome Checker Using Recursion

Write a program that checks if a given string is a palindrome using recursion. A palindrome is a word or phrase that reads the same backward as forward.

**Requirements:**

- Implement a recursive method to check the palindrome.
- Consider edge cases like ignoring spaces, punctuation, and case sensitivity.

java

```
public class PalindromeChecker {
    public static boolean isPalindrome(String str) {
        // Remove non-alphanumeric characters and convert to lowercase
        str = str.replaceAll("[^a-zA-Z0-9]", "").toLowerCase();

        // Call the recursive method
        return checkPalindrome(str, 0, str.length() - 1);
    }

    private static boolean checkPalindrome(String str, int left, int right) {
        if (left >= right) {
            return true;
        }
        if (str.charAt(left) != str.charAt(right)) {
            return false;
        }
        return checkPalindrome(str, left + 1, right - 1);
    }

    public static void main(String[] args) {
        String input = "A man, a plan, a canal, Panama";
        System.out.println(isPalindrome(input) ? "Palindrome" : "Not a palindrome");
    }
}
```

# Java Programming Challenges

**Jiyuan Zhang**



## Java Programming Challenges:

*Java Coding Problems* Anghel Leonard, 2019-09-20 Develop your coding skills by exploring Java concepts and techniques such as Strings Objects and Types Data Structures and Algorithms Concurrency and Functional programming Key Features Solve Java programming challenges and get interview ready by using the power of modern Java 11 Test your Java skills using language features algorithms data structures and design patterns Explore areas such as web development mobile development and GUI programming Book Description The super fast evolution of the JDK between versions 8 and 12 has increased the learning curve of modern Java therefore has increased the time needed for placing developers in the Plateau of Productivity Its new features and concepts can be adopted to solve a variety of modern day problems This book enables you to adopt an objective approach to common problems by explaining the correct practices and decisions with respect to complexity performance readability and more Java Coding Problems will help you complete your daily tasks and meet deadlines You can count on the 300 applications containing 1 000 examples in this book to cover the common and fundamental areas of interest strings numbers arrays collections data structures date and time immutability type inference Optional Java I O Java Reflection functional programming concurrency and the HTTP Client API Put your skills on steroids with problems that have been carefully crafted to highlight and cover the core knowledge that is accessed in daily work In other words no matter if your task is easy medium or complex having this knowledge under your tool belt is a must not an option By the end of this book you will have gained a strong understanding of Java concepts and have the confidence to develop and choose the right solutions to your problems What you will learn Adopt the latest JDK 11 and JDK 12 features in your applications Solve cutting edge problems relating to collections and data structures Get to grips with functional style programming using lambdas Perform asynchronous communication and parallel data processing Solve strings and number problems using the latest Java APIs Become familiar with different aspects of object immutability in Java Implement the correct practices and clean code techniques Who this book is for If you are a Java developer who wants to level up by solving real world problems then this book is for you Working knowledge of Java is required to get the most out of this book *Java Coding Problems* Anghel Leonard, 2019-09-20 Develop your coding skills by exploring Java concepts and techniques such as Strings Objects and Types Data Structures and Algorithms Concurrency and Functional programming Key Features Solve Java programming challenges and get interview ready by using the power of modern Java 11 Test your Java skills using language features algorithms data structures and design patterns Explore areas such as web development mobile development and GUI programming Book Description The super fast evolution of the JDK between versions 8 and 12 has increased the learning curve of modern Java therefore has increased the time needed for placing developers in the Plateau of Productivity Its new features and concepts can be adopted to solve a variety of modern day problems This book enables you to adopt an objective approach to common problems by explaining the correct practices and decisions with respect to

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