

23. Write a Java method to display the middle character of a string.

Test Data:

Input a string: 350

Expected Output:

The middle character in the string: 5

```
import java.util.Scanner;

public class Exercise23 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Input a string: ");
        String str = scanner.nextLine();

        char middleChar = findMiddleCharacter(str);

        System.out.println("The middle character in the string: " + middleChar);

        scanner.close();
    }

    public static char findMiddleCharacter(String str) {
        int length = str.length();
        // Check if the length of the string is odd
        if (length % 2 != 0) {
            // If odd, return the middle character
            return str.charAt(length / 2);
        } else {
            // If even, return the middle character on the right side of the middle
            (by convention)
            return str.charAt(length / 2 - 1);
        }
    }
}
```