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);

}

}

}