

java program to check palindrome string using recursion

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Program: Check whether String is palindrome using recursion

```
package beginnersbook.com;
import java.util.Scanner;
class PalindromeCheck
{
    //My Method to check
    public static boolean isPal(String s)
    {
        // if length is 0 or 1 then String is palindrome
        if(s.length() == 0 || s.length() == 1)
            return true;
        if(s.charAt(0) == s.charAt(s.length()-1))
        /* check for first and last char of String:
         * if they are same then do the same thing for a substring
         * with first and last char removed. and carry on this
         * until you string completes or condition fails
         * Function calling itself: Recursion
         */
            return isPal(s.substring(1, s.length()-1));

        /* If program control reaches to this statement it means
         * the String is not palindrome hence return false.
         */
        return false;
    }

    public static void main(String[]args)
    {
        //For capturing user input
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter the String for check:");
        String string = scanner.nextLine();
        /* If function returns true then the string is
         * palindrome else not
         */
        if(isPal(string))
            System.out.println(string + " is a palindrome");
        else
            System.out.println(string + " is not a palindrome");
    }
}
```

Output:

```
Enter the String for check:
qqaabb
qqaabb is not a palindrome
```

Output 2:

```
Enter the String for check:  
cocoococ  
cocoococ is a palindrome
```