10. Write a program for to check whether a given String is Palindrome or not using recursion

Code:

```
def is_palindrome_recursive(s):
    if len(s) <= 1:
        return True
    if s[0] != s[-1]:
        return False

    return is_palindrome_recursive(s[1:-1])

string = input("Enter a string: ")

if is_palindrome_recursive(string):
    print(f'"{string}" is a palindrome')

else:
    print(f'"{string}" is not a palindrome')</pre>
```

Output:

```
Enter a string: racecar "racecar" is a palindrome
```

```
Enter a string: 121
"121" is a palindrome
```

Time Complexity:

• T(n) = O(n)