

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

PROGRAM :

```
def is_palindrome(s):  
    s = s.lower().replace(" ", "")  
    if len(s) < 2:  
        return True  
    if s[0] != s[-1]:  
        return False  
    return is_palindrome(s[1:-1])  
string = input("enter the string: ")  
if is_palindrome(string):  
    print(f"'{string}' is a palindrome.")  
else:  
    print(f"'{string}' is not a palindrome.")
```

INPUT : **enter the string: a man a plan a canal panama**

OUTPUT : **'a man a plan a canal panama' is a palindrome.**

TIME COMPLEXITY : $O(n)$