

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])  
  
input_string = "A man a plan a canal Panama"  
if is_palindrome(input_string):  
    print(f'{input_string} is a palindrome.')  
else:  
    print(f'{input_string} is not a palindrome.')
```

INPUT:

A man a plan a canal Panama

OUTPUT:

A man a plan a canal Panama is a palindrome.

TIME COMPLEXITY:

Time complexity of the above code is

$f(n)=O(n)$