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

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Program:
def is palindrome(s):
  s = s.lower() # Convert string to lowercase for case-
insensitive comparison
  if len(s) <= 1:
    return True
  if s[0] != s[-1]:
    return False
  return is palindrome(s[1:-1])
input_str = "Madam"
if is_palindrome(input_str):
  print(input_str, "is a palindrome.")
else:
  print(input_str, "is notapalindrome.")
Output:
Time complexity:
O(log n)
```