```cpp
// Homework
/*
Write a short recursive C++ function that determines if a string s is a
palindrome, that is, it is equal to its reverse. For example, "racecar"
and "gohangasalamiimalasagnahog" are palindromes.
Note: Your implementation has to be recursive. Zero points for non-
  recursive code
even if it's correct.
*/

#include <iostream>
#include <string>

bool isPalinHelper(std::string& s, int begin, int end) {

    // Base case: If the string has one character or none, it's a
      palindrome.
    if (begin >= end) {
        return true;
    }

    // Check if the characters at the current positions are equal.
    if (s[begin] != s[end]) {
        return false;
    }

    // Recursively check the substring between begin and end.
    return isPalinHelper(s, begin + 1, end - 1);
}

bool isPalin(std::string& s) {
return isPalinHelper(s, 0, s.size()-1);
}

int main() {

std::string s1{"racecar"}; // Palindrome
if (isPalin(s1)) std::cout << s1 << " is a palindrome" << std::endl;
else std::cout << s1 << " is not a palindrome" << std:: endl;

std::string s2{"racecars"}; // Not a palindrome
if (isPalin(s2)) std::cout << s2 << " is a palindrome" << std::endl;
else std::cout << s2 << " is not a palindrome" << std:: endl;

std::string s3{"gohangasalamiimalasagnahog"};
if (isPalin(s3)) std::cout << s3 << " is a palindrome" << std::endl;
else std::cout << s3 << " is not a palindrome" << std:: endl;
}

```