Palindrome is a string (string) that if you reverse the order of characters in the string, we still get the old string. For example: “ABCBA”, “RADAR”, “otto”, “i am ma i”, “C”.

The **palindrome** function checks if a string is the given palindrome.

Write a function palindromeRecursion using recursive calling technique to check a string is palindrome or not.

**Input:**

Character strings s with a length of no more than 1000 characters

**Output:**

Each line returns the value of the palindrome and palindromeRecursion functions (see example for more details)

**Template of full code:**

#include<iostream>  
#include<string>  
using namespace std;  
/\* END of library \*/  
bool palindrome(string strg);  
bool palindromeRecursion(string s)  
{  
    // BEGIN YOUR IMPLEMENTATION [1]  
    // TODO  
     
    // END YOUR EMPLEMENTATION [1]  
}

**For example:**

| **Test** | **Input** | **Result** |
| --- | --- | --- |
| 1 | abccba  abc  a  \* | true true  false false  true true |

int main () {

string a[]={"abccba","abc", "a","\*"};

for (int i=0;i<4;i++){

if (a[i][0]=='\*') break;

(palindromeRecursion(a[i]))?cout<<"true true":cout<<"false false";

cout<<endl;

}

}