```
#include <iostream>
#include <stack>
#include <cctype>
using namespace std;
void printOriginalAndReversed(const string& str) {
  cout << "Original String: " << str << endl;</pre>
  stack<char> s;
  for (int i = 0; i < str.length(); i++) {
    s.push(str[i]);
  }
  cout << "Reversed String: ";</pre>
  while (!s.empty()) {
    cout << s.top();</pre>
    s.pop();
  }
  cout << endl;
}
bool isPalindrome(const string& str) {
  int left = 0;
  int right = str.length() - 1;
  while (left < right) {
    if (!isalnum(str[left])) {
       left++;
    } else if (!isalnum(str[right])) {
       right--;
    } else {
       if (tolower(str[left]) != tolower(str[right])) {
         return false;
       }
       left++;
       right--;
    }
  }
  return true;
```

```
int main() {
    string input;
    cout << "Enter a string: ";
    getline(cin, input);
    printOriginalAndReversed(input);
    if (isPalindrome(input)) {
        cout << "The string is a palindrome." << endl;
    } else {
        cout << "The string is NOT a palindrome." << endl;
    }
    return 0;
}</pre>
```