627. Longest Palindrome

* [Description](http://lintcode.com/en/problem/longest-palindrome/" \l "description)
* [Notes](http://lintcode.com/en/problem/longest-palindrome/#note)
* [Testcase](http://lintcode.com/en/problem/longest-palindrome/#testcase)
* [Judge](http://lintcode.com/en/problem/longest-palindrome/#judge)

Given a string which consists of lowercase or uppercase letters, find the length of the longest palindromes that can be built with those letters.

This is case sensitive, for example "Aa" is not considered a palindrome here.

 Notice

Assume the length of given string will not exceed 1010.

Have you met this question in a real interview?

Yes

**Example**

Given s = "abccccdd"return 7

One longest palindrome that can be built is "dccaccd", whose length is 7.

<http://lintcode.com/en/problem/longest-palindrome/#>

#include <iostream>

#include <stdio.h>

#include <map>

using namespace std;

int longestPalindrome(string &s) {

// write your code here

if (s.empty() || s.length() == 0) {

return 0;

}

map<char,int > m;

for(int i =0; i<s.length(); i++)

{

m[s[i]]++;

}

int impares =0;

for (map<char, int>::iterator itr = m.begin(); itr != m.end(); itr++)

{

if(itr->second %2 !=0) {

impares++;

}

}

if(impares > 0)

return s.length()-impares+1;

return s.length();

}

int main() {

//string s = "abccccdd";

string s = "NTrQdQGgwtxqRTSBOitAXUkwGLgUHtQOmYMwZlUxqZysKpZxRoehgirdMUgy";

printf("%d ", longestPalindrome(s));

return 0;

}