409. Longest Palindrome

QuestionEditorial Solution

- Total Accepted: **8570**
- Total Submissions: **19266**
- Difficulty: **Easy**
- Contributors: **Admin**

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.

Note:

Assume the length of given string will not exceed 1,010.
Input:
"abccccdd"

Output:
7

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

```cpp
class Solution {
public:
    int longestPalindrome(string s) {
        int cnt[52];
        for(int i=0;i<52;++i) cnt[i]=0;
        for(int i=0;i<s.size();i++)
        {
            if(s[i]>='a' && s[i]<='z')
            {
                cnt[s[i]-'a']++;
            }
            else if(s[i]>='A' && s[i]<='Z')
            {
                cnt[s[i]-'A'+26]++;
            }
        }
        int ret=0;int odd=0;
        for(int i=0;i<52;i++)
        {
            ret+=(cnt[i]/2)*2;
            odd |= cnt[i] & 1;//(zhewei) if odd exist, add 1
        }
        return ret+odd;

    }
```

```
};
```