409. Longest Palindrome

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Notes

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.

Example:

```
Input:
"abccccdd"

Output:
7

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

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C++

```cpp
class Solution {
public:
    int longestPalindrome(string s) {
        map<char, int> count;
        for(char c : s) {
            count[c]++;
        }
        int res = 0;
        bool hasOdd = false;
        for(auto it = count.begin(); it != count.end(); ++it) {
            if(it->second % 2 == 0)
                res += it->second;
            else if (!hasOdd){
                res += it->second;
                hasOdd = true;
            } else {
                res += it->second - 1;
            }
        }
        return res;
    }
};
```

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