#include<bits/stdc++.h>

using namespace std;

int solve(string s){

int n = s.size();

int dp[n][n];

for(int g = 0;g<n;g++){

for(int i=0,j=g;j<n;i++,j++){

if(g==0){

dp[i][j] = 1;

}

else if(g==1){

dp[i][j] = (s[i]==s[j])?3 : 2;

}

else{

if(s[i]==s[j]){

dp[i][j] = dp[i+1][j] + dp[i][j-1] + 1;

}

else{

dp[i][j] = dp[i+1][j] + dp[i][j-1] - dp[i+1][j-1];

}

}

}

}

return dp[0][n-1];

}

int main(){

string s;

cin>>s;

cout<<solve(s);

}