Palindrome SubStrings

Difficulty: **Medium** Accuracy: **45.8%** Submissions: **44K+** Points: **4** Average Time: **30m**

Given a string **s**, count all palindromic sub-strings present in the string. The length of the **palindromic sub-string** must be greater than or equal to 2.

Examples

Input: s = "abaab"
Output: 3
Explanation: All palindromic substrings are : "aba" , "aa" , "baab".

Input: s = "aaa"
Output: 3
Explanation: All palindromic substrings are : "aa", "aa", "aaa".

Input: s = "abbaeae"
Output: 4
Explanation: All palindromic substrings are : "bb" , "abba" , "aea", "eae".

Constraints:

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Java (1.8) | Start Timer

```java
// } Driver Code Ends
class Solution {
    public int countPS(String s) {
        int n = s.length();
        int res = 0;
        boolean[][] dp = new boolean[n][n];
        for(int i = 0; i < n; i++){
            dp[i][i] = true;
        }
        for(int i = 0; i < n - 1; i++){
            if(s.charAt(i) == s.charAt(i + 1)){
                dp[i][i + 1] = true;
                res++;
            }
        }
        for(int gap = 2; gap < n; gap++){
            for(int i = 0; i < n - gap; i++){
                int j = i + gap;
                if(s.charAt(i) == s.charAt(j) && dp[i+1][j-1]){
                    dp[i][j] = true;
                    res++;
                }
            }
        }
        return res;
    }
}
```