

## 动态规划子数组: 446. 等差数列划分 II - 子序列

代码:

```
1 class Solution {
2 public:
3     int numberOfArithmeticSlices(vector<int>& nums) {
4         int n = nums.size();
5         int sum = 0;
6         unordered_map<long long, vector<int>> hash;
7         for(int i = 0; i < n; i++)
8         {
9             hash[nums[i]].push_back(i);
10        }
11        vector<vector<int>> dp(n, vector<int>(n));
12        for(int j = 2; j < n; j++)
13        {
14            for(int i = 1; i < j; i++)
15            {
16                long long a = (long long)2*nums[i] - nums[j];
17                if(hash.count(a))
18                {
19                    for(auto e : hash[a])
20                    {
21                        if(e < i)
22                        {
23                            dp[i][j] += dp[e][i] + 1;
24                        }
25                    }
26                }
27                sum += dp[i][j];
28            }
29        }
30        return sum;
31    }
32 }
33 };
```

## 动态规划回文序列: 647. 回文子串

代码:

```
1 class Solution {
2 public:
3     int countSubstrings(string s) {
4         int sum = 0;
5         int n = s.size();
6         vector<vector<int>> dp(n, vector<int>(n));
7         for (int i = n-1; i >= 0; i--) {
8             for (int j = i; j < n; j++) {
9                 if (s[i] == s[j]) {
10                     if (i == j || i + 1 == j) {
11                         dp[i][j] = 1;
12                     } else {
13                         dp[i][j] = dp[i + 1][j - 1];
14                     }
15                     if(dp[i][j]) sum++;
16                 }
17             }
18         }
19         return sum ;
20     }
21 };
```